



44
YEAR



PARLADI
METAL SAN. VE. TİC. LTD. ŞTİ.

İÇİNDEKİLER / INDEX

2	.....Tarihçe	History	Geschichte
4	.....Miyon - Vizyon - Deęerlerimiz	Mission - Vision - Our Values	Auftrag - Vision - Unsere Werte
6	.....Departmanlar	Departments	Abteilungen
8	.....İSG	OHS	OHS
10	.....Kalite Politikamız	Our quality policy	Unsere Qualitätspolitik
12	.....Rakamlarla Parladi	Parladi with Numbers	Parladi nach Zahlen
14	.....Yazılım	Software	Software
16	.....Parladi Layout	Layout	Layout
18	.....Makine Parkuru	Machine Parkour	Maschine Parkour
22	.....Boy Kesme Hattı	Cut-to-Length Line	Querteilanlage
28	.....Multiblanking	Multiblanking	Multiblanking
30	.....Dilme Hattı	Slitting Line	Längsteilanlage
32	.....Makas	Guillotine	Guillotine
34	.....Lazer Kesim	Laser cutting	Laserschneiden
36	.....Destek Profili	Support Profile	Stützprofil
38	.....Sevkiyat Depo	Shipping Warehouse	Versand-Lager
42	.....Ürünler	Products	Produkte
44	.....Yassı Ürün Kataloęu	Flatsteel Product Catalog	Flachstahl Produktkatalog
46	.....Sıcak Haddelenmiş Ürünler	Hot Rolled Products	Warmgewalzte Produkte
62	.....Soęuk Haddelenmiş Ürünler	Cold Rolled Products	Kaltgewalzte Produkte
70v	.....Galvaniz Ürünler	Galvanized Product	Verzinkte Produkte



“ Çalışanlarımıza, bölgemize ve ülkemize sağladığımız katma değer bugünkü en büyük gururumuzdur.

TR

1980 yılında başladığımız çelik yolculuğunda 150 m²den bugün 25000 m² ye ulaşmanın haklı gururunu yaşamaktayız. İşimizi severek, sektörün gereksinimlerini tespit edip doğru adımları atarak bu günlere geldik. Yerli ve milli duruşumuzla ekonomimize hizmet etme şevkini hiçbir zaman kaybetmedik. Bu günlere gelirken inişli çıkışlı uzun bir yol katettik. Çalışma arkadaşlarımızla yılmadan, yorulmadan üretmeye devam ettik. Çeliğin olduğu her alanda var olan gayretimizle, otomotiv ve beyaz eşya sektöründe kaliteli ve katma değerli ürünleri, tam zamanında müşterilerimize ulaştırmayı başardık. Yeni yatırım kararları ile bundan sonraki süreçte de sektörün önde gelen firmalarından biri olmak adına var gücümüzü ve heyecanımızla çalışmaya devam edeceğiz. Çalışanlarımıza, bölgemize ve ülkemize sağladığımız katma değer bugünkü en büyük gururumuzdur.

Saygılarımla,
Yönetim Kurulu Başkanı
Halil PARLADI

1977

Kuruluş

1977 yılında Bursa'nın Osmangazi İlçesinde 150 m² metal işleme atölyesi olarak kuruldu.

TR

1990

Erdemir'den Direkt tedarik

Halen Türkiye'nin en büyük ana tedarikçisi konumunda olduğumuz Erdemir ile ilk anlaşma.

1996

İlk Makine Yatırımı

Boy kesme makineleri ile kendi bünyemizde ebatlama yapmaya başladık.

2001

Atölyeden Fabrikaya

Dilme makinesi ile Çalı sanayi bölgesindeki üssün ilk safhası kuruldu.

2002

Otomotiv Yan Sanayisinde Kilit Tedarikçi

Anlaşmalı veya sıcak satış imkanı ile her üreticiye ham madde sunumunda Erdemir kalitesi ve güvencesini ulaştırdık.

EN

Establishment; Parladi got established in 1977 in Osmangazi/ Bursa as a 150m² small metal processing workshop.

Direct supplying guarantee from Erdemir; the first supplier contract with Erdemir, which is still the biggest and oldest domestic producer of flat steel in Turkey.

The first big investment in the machine inventory; Individual sizing for individual needs with guillotines and cut to length machines. .

By adding first slitting machines to the machine inventory and moving to an industrial zone Çalı, Parladi became a real factory.

Parladi built a bridge among main producers and the subsidiaries in Bursa, which is the capital of automotive industry in Turkey

D

Parladi wurde 1977 in Osmangazi/ Bursa als 150m² kleine Metallverarbeitungswerkstatt gegründet.

Direkte Liefergarantie von Erdemir; der erste Liefervertrag mit Erdemir, dem bis heute größten und ältesten inländischen Hersteller von Flachstahl in der Türkei.

Die erste große Investition in den Maschinenpark; Individuelles Zuschneiden für individuelle Bedürfnisse.

Durch die Aufnahme der ersten Schneidemaschinen in den Maschinenpark und den Umzug in ein Industriegebiet Çalı wurde Parladi zu einer echten Fabrik.

Parladi bildete eine Brücke zwischen den Hauptherstellern und den Tochtergesellschaften in Bursa, der Hauptstadt der Türkischen Automobilindustrie



EN

The year was 1977, I was a young ambitious entrepreneur with a dream. That dream was to be on of the biggest metal manufacturers Turkey has to offer. Parladi Metal started making a modest 150m a year with only 5 people. But through hard work and dedication Parladi now has 164 personnel and on 22,000 m2 today. We are now at the forefront of bringing quality products in every industry, from the automotive industry to household appliances. I am pleased to say the future of Parladi Metal looks bright. With the team we have, the sky is the limit to what we are going to be able to achieve. Thank you for all your hard work and dedication to making Parladi Metal what it is today.

Sincerely,
Board Chairman
Halil PARLADI

D

Im Jahr 1977, ich war ein junger, ehrgeiziger Unternehmer mit einem Traum. Dieser Traum war es, einer der größten Metallhersteller zu werden, den die Türkei zu bieten hat. Parladi Metal begann mit bescheidenen 150 Millionen pro Jahr und nur 5 Mitarbeitern. Doch durch harte Arbeit und Hingabe beschäftigt Parladi heute 164 Mitarbeiter auf einer Fläche von 22.000 m2. Wir sind heute führend bei der Herstellung von Qualitätsprodukten für alle Branchen, von der Automobilindustrie bis zu Haushaltsgeräten. Ich freue mich, sagen zu können, dass die Zukunft von Parladi Metal rosig aussieht. Mit dem Team, das wir haben, ist der Himmel die Grenze dessen, was wir erreichen können. Ich danke Ihnen für all Ihre harte Arbeit und Ihr Engagement, die Parladi Metal zu dem gemacht haben, was es heute ist.

Mit freundlichen Grüßen,
Vorstandsvorsitzender
Halil PARLADI

2005

Çalı Yerleşkesinin Genişlemesi

2002 yılında başlayıp günümüzde 22000 m² lik alana ulaşan kapalı alanın 5000 m² lik ilk etabı alındı.

Expanding in Çalı Industrial Zone: Investing in 5.000m² closed area in order to reach 23.000m² today.

Expansion in der Çalı-Industriezone: Investition in 5.000 m² geschlossene Fläche, um heute 23.000 m² zu erreichen.

2008

BTSO Yılın Enleri ilk 250

Bursa Ticaret ve Sanayi Odasına göre en büyük 250 firmadan biri olduk.

First time on the top 250 companies list of Bursa's Chamber of Commerce and Industry In 2020 we ranked 80th on this list.

Erstmalige Aufnahme in die Liste der 250 besten Unternehmen der Industrie- und Handelskammer von Bursa Im Jahr 2020 belegten wir Platz 80 auf dieser Liste.

2012

İlk İhracat adımı

4 adet dilme makinesinin parkura katılması ile üretim gücümüzü artırarak yurt dışı firmalara da hizmet vermeye başladık.

First export Realizing the universal need of flat steel and employing multilingual workers.

Erster Export Wir erkennen den universellen Bedarf an Flachstahl und stellen mehrsprachige Mitarbeiter ein.

2017

40. Yılında Zirvede

Kurumsallaşma adımları ile vizyonunu yurtdışı pazara çeviren Parladi Metal ciro bazında 5. kez BTSO tarafından yayınlanan yılın en iyi 250 firması arasına girerek önemli bir başarıya daha imza atıyor.

Ranking for the 5th time in top 250 list in our 40th year Targeting to be better in international market and institutionalization.

5. Platz in der Top 250 Liste im 40. Jahr unseres Bestehens Unser Ziel ist es, auf dem internationalen Markt besser zu sein und sich zu institutionalisieren.

2020

Hammaddeden Mamüle

3500 m² 'lik yeni lazer kesim, abkant ve kaynak makineleri ile hammaddede gelen ürünü yan mamül olarak imalatı gerçekleştirilmektedir.

Investing in laser cutting, press brakes, welding and coating branches along with purchasing a new 3500m² plant for this new department.

Investitionen in die Bereiche Laserschneiden, Abkantpressen, Schweißen und Beschichten sowie der Kauf einer neuen 3500 m² großen Anlage für diese neue Abteilung.



MİSYON

TR Misyonumuz; sektörün son teknolojilerini kullanarak dünya pazarlarında kabul gören, kaliteli ürünlerimizle uluslararası bir marka olmak. Aynı zamanda satış öncesi ve sonrası hizmetlerde hemen ulaşılabilirlik avantajımızla, müşterilerimizin, çalışanlarımızın, toplumun ve diğer paydaşlarımızın memnuniyetini sağlayarak güvenilir, verimli ve fark yaratan lider bir firma olmaktır.

VİZYON

TR Müşteri odaklı üretim geleneğinden ödün vermeden, gelişen teknolojiye ayak uydurarak sürekli değer yaratmak ve böylece sektörün uluslararası lider firmaları arasına girmek.

DEĞERLERİMİZ

TR Müşterilerimize, çalışanlarımıza, ülkemize, çevremize ve dünyaya karşı sorumluluğumuzun farkında olarak çalışmak.

Sürekli gelişim ve yeniliğe açık olmak.

Mesleki yeterlilik sahibi uzman personelle çalışmak, şirket içi eğitimlerle personel kalitesini arttırmak.

Üretirken doğaya ve insana zarar verebilecek her türlü etkiye karşı tedbirler almak.

Üretimin başından sonuna kadar ekip bilinci ile çalışmak.

Müşterilerimiz, paydaşlarımız, çözüm ortaklarımızla güven ilişkisi içinde çalışmak ve bu güven ilişkisini geliştirmek.



MISSION

EN Our mission is to increase our facility capacity size locally and overseas. This will allow us to create a more expansive distribution and sales network.

VISION

EN To rank among the best of bests in the international area by targeting human, economic and technological development.

OUR VALUES

EN Serving quality on time is not a necessity, it is a must. Only in this way we can preserve what we have today that are our prestige, our customers trust and success.

MISSION

D Unser Ziel ist es, die Kapazität unserer Einrichtungen im In- und Ausland zu erhöhen. Dies wird es uns ermöglichen, ein größeres Vertriebs- und Verkaufnetz aufzubauen.

VISION

D Durch gezielte menschliche, wirtschaftliche und technologische Entwicklung zu den Besten der Besten im internationalen Bereich zu gehören.

UNSERE WERTE

D Pünktlich Qualität zu liefern ist keine Notwendigkeit, sondern ein Muss. Nur so können wir das bewahren, was wir heute haben: unser Prestige, das Vertrauen unserer Kunden und unseren Erfolg.

DEPARTMENTANLAR

DEPARTMENTS ABTEILUNGEN



SATIN ALMA

TR

Şirket politikası ve hedefler doğrultusunda ihtiyaç duyulan malzemenin tespiti ve teminini yapan satın alma departmanımız fiyat iyileştirme çalışmaları yaparak girdi maliyetlerini hedef seviyede tutmak için çalışır.



İŞ GÜVENLİĞİ

Üretim ile ilgili tüm risklerin analizlerini yapar. Olası tehlikeleri önlemek adına tedbirleri alır. Oluşturduğu İSG kurulu ile iş güvenliği planlamasını yaparak iş güvenliği eğitimlerini programlar ve tüm personelin KKD (Kişisel Koruyucu Donanım) ekipmanlarını doğru kullanımını sağlar ve denetler.



KALİTE

Parladı Metal kalite politikası ve hedefleri doğrultusunda üretilen ürünlerin kalite analizlerini yapmak, sertifika ve raporlarını denetlemek, üretim sırasında gerçekleştirilecek kalite sorunlarının takibini sağlayarak çözüme kavuşturmak için çalışır. Ürün ve üretim geliştirme adına araştırma geliştirme çalışmalarına katkı sağlar.



PLANLAMA

Firmamızın departmanları arasındaki iş ve malzeme akışını koordine etmek ve hızlandırmak. Üretim, satış ve sevkiyat planlarını takip etmek, üretim proseslerine uygun iş akışını hazırlar ve yönetir. Ayrıca maliyet ve üretim sorunlarını tespit ederek raporlanması ve çözülmesini sağlar.

PURCHASING

EN

It works for detecting and purchasing the needed materials as well as quaranteeing the continuous supply on time by contracting on long terms.

WORK SAFETY AND HEALTH

We do our best to avoid all risks associated with production. We take measures and train our employees as well as we check regularly if the necessary personal protective equipments are worn correctly by all including the white collars and visitors at production area.

QUALITY CHECK

We have certain quality policy and objectives as well as quality analysis and test certificates of all flat steel products provided by main producer. We check and keep up with the possible incompatibility situations. With product and production development being our target, we solve individual quality problems even at the workplace of our customers.

PLANNING

We coordinate and report the workflow among the sales, production and shipping departments. We change the speed or content of the production if necessary. While doing these, we chase the optimum cost benefit point. What separates us from all other competitors is that we answer to the urgent or unexpected needs of our customers.

EINKAUF

D

Sie ist für die Ermittlung und den Einkauf der benötigten Materialien zuständig und garantiert die kontinuierliche und pünktliche Versorgung durch langfristige Verträge.

ARBEITSSICHERHEIT UND GESUNDHEIT

Wir tun unser Bestes, um alle mit der Produktion verbundenen Risiken zu vermeiden. Wir ergreifen Maßnahmen und schulen unsere Mitarbeiter und überprüfen regelmäßig, ob die erforderliche persönliche Schutzausrüstung von allen, einschließlich der Angestellten und Besucher im Produktionsbereich, korrekt getragen wird.

QUALITÄTSKONTROLLE

Wir verfügen über eine bestimmte Qualitätspolitik und Ziele sowie über Qualitätsanalysen und Prüfsertifikate für alle Flachstahlprodukte, die vom Haupthersteller bereitgestellt werden. Wir überprüfen die möglichen Unverträglichkeitssituationen und halten sie aufrecht. Mit dem Ziel der Produkt- und Produktionsentwicklung lösen wir individuelle Qualitätsprobleme auch am Arbeitsplatz unserer Kunden.

PLANUNG

Wir koordinieren und berichten den Arbeitsablauf zwischen den Abteilungen Vertrieb, Produktion und Versand. Wenn nötig, ändern wir die Geschwindigkeit oder den Inhalt der Produktion. Dabei verfolgen wir den optimalen Kosten-Nutzen-Punkt. Was uns von allen anderen Wettbewerbern unterscheidet ist, dass wir auf die dringenden oder unerwarteten Bedürfnisse unserer Kunden eingehen.



İNSAN KAYNAKLARI

TR

Bu departman firmamıza konusunda uzman personel kazandırmak için çalışır.

Tüm personelin firmamızla olan mali ilişkileri ve sağlık kontrolleri takip edilir. Mesleki eğitimlerin ve yeterlilik belgelerinin takibi yapılır. Çalışanlarımızın tüm haklarının yasal mevzuata göre takibi sağlanır..



MUHASEBE / FİNANS

Firmamızın finansal hizmetlerini, maaş, vergi hesaplama vb. dahil olmak üzere bordro işlemek, kayıtlarını tutmak, kâr ve zarar tablolarını gözden geçirmek, mali sorunları zamanında ele almak, günlük nakit akışı raporları hazırlamak, gelir muhasebesi, gider muhasebesi, hesap mutabakatı gibi ay sonu kapanış faaliyetlerini gerçekleştirmek, borç ve alacakları yönetmek, kredi ve tahsilat faaliyetlerini yönetmeye yardımcı olmak için çalışır.



SEVKİYAT

Üretimi gerçekleştirilen ürünlerin müşterilerimizin paketleme ve ambalajlama talimatlarına uygun olarak sevkiyata hazırlar. Ayrıca sevkiyatın yükleme, çıkış, nakliye ve teslimat süreçlerini takip ederek, zamanında ve sorunsuz olarak sevk sürecinin tamamlanmasını sağlar.



SATIŞ - PAZARLAMA

Firmanın müşteri portföyünü geliştirmek, pazar araştırması yaparak hedef müşteri tespiti yapmak, müşteri siparişlerinin alınması, üretim sürecine taleplerin bildirilmesi için çalışır. Satış sonrası müşteri memnuniyet ve şikayetlerini değerlendirir.

Ayrıca firma bünyesindeki sıcak satış mağazasında müşterilerimizin anlık taleplerine cevap verir.

HUMAN RESOURCES

EN

Our main goal is to comply with not only the local but also international legal regulations of labor and industry. Therefore, we select the right staff and control them about training and qualification documents and also financial and health situations.

FINANCE AND ACCOUNTING

Finance and accounting: As of total 7 people we calculate salary and tax, process payroll, keep records, review profit and loss, handle daily cash flow, manage debt and credits and account for income and expense.

SHIPPING

In accordance with each and every instruction of our customers we pack and prepare the goods for the shipment. We make sure the loading, checkout and delivery happen on time and with no problem. With our total 14 vehicles we also do forwarding goods in the various destinations.

SALES AND MARKETING

Sales and marketing: We determine the right product for each and every customer and after sales we make sure that they picked the right steel for their production. In our instant sale store we sell goods and respond to the instant demands and needs of our customers. To market our products we place our company to various markets and order for special and hard to find grades if necessary.

PERSONALWESEN

D

Unser Hauptziel ist es, nicht nur die lokalen, sondern auch die internationalen arbeits- und branchenrechtlichen Vorschriften einzuhalten. Deshalb wählen wir die richtigen Mitarbeiter aus und kontrollieren sie hinsichtlich ihrer Ausbildung und Qualifikationsunterlagen sowie ihrer finanziellen und gesundheitlichen Situation.

FINANZEN UND BUCHHALTUNG

Mit insgesamt 7 Mitarbeitern berechnen wir die Gehälter und Steuern, führen die Gehaltsabrechnung durch, führen Buch, prüfen Gewinn und Verlust, verwalten den täglichen Geldfluss, verwalten Schulden und Kredite und verbuchen Einnahmen und Ausgaben.

VERSAND

Gemäß den Anweisungen unserer Kunden verpacken wir die Waren und bereiten sie für den Versand vor. Wir sorgen dafür, dass die Beladung, die Abfertigung und die Auslieferung pünktlich und ohne Probleme erfolgen. Mit unseren insgesamt 14 Fahrzeugen übernehmen wir auch den Transport der Waren in die verschiedenen Zielorte.

VERTRIEB UND MARKETING

Wir ermitteln für jeden Kunden das richtige Produkt und stellen nach dem Verkauf sicher, dass er den richtigen Stahl für seine Produktion ausgewählt hat. In unserem Sofortverkaufsladen verkaufen wir Waren und reagieren auf die sofortige Nachfrage und die Bedürfnisse unserer Kunden. Um unsere Produkte zu vermarkten, platzieren wir unser Unternehmen auf verschiedenen Märkten und bestellen bei Bedarf spezielle und schwer zu findende Güten.



ISG

TR PARLADI METAL SANAYİ VE LTD.ŞTİ. olarak benimsemiş olduğumuz İş sağlığı ve güvenliği politikası, insana ve içinde yaşadığı çevreye duyulan büyük bir saygıdan gelmektedir. Çalışanlarımızın ve bizim adımıza faaliyet gösteren paydaş çalışanlarımızın güvenliğini, sağlığını ve emniyetini korumak Parladi Metal için temel bir değerdir.

Hedefimiz, tüm çalışanlarımızda iş sağlığı ve güvenliği konularında gereken bilinç ve kültürün oluşturulması ve tüm iş kazalarının ve meslek hastalıklarının önlenmesidir. Faaliyet gösterdiğimiz her alanda İş Sağlığı ve Güvenliği birinci öncelik olup, güvenli ve sağlıklı bir çalışma ortamı temin etmek üzere, herkes kendi yetki sınırları içinde gerekeni yapmakla yükümlüdür. En önemli hedeflerimizden biri de, tüm çalışanlarımızı ve içinde bulunduğumuz çevreyi iş kolumuzun olası risklerine karşı korumaktır. Sürekli iyileştirme en önemli ilkelerimizden biridir.

OUR SAFETY AND HEALTH POLICY

EN We respect our environment and human rights since humans are an inseparable part of our environment.

Parladi's core value lies in the importance of a healthy environment and human life.

Therefore, our goal is to create the necessary awareness and culture on occupational health and safety in all our employee's heads. We also strive for preventing of accidents and diseases. Everyone in Parladi is obliged to do and report what is necessary to be done. To improve continuously, we believe that the safety and health begin at how clean and disciplined a workplace is.



UNSERE SICHERHEITS UND GESUNDHEITSPOLITIK

D Wir respektieren unsere Umwelt und die Menschenrechte, da der Mensch ein untrennbarer Teil unserer Umwelt ist.

Der Kernwert von Parladi liegt in der Bedeutung einer gesunden Umwelt und des menschlichen Lebens.

Daher ist es unser Ziel, in allen Köpfen unserer Mitarbeiter das notwendige Bewusstsein und die Kultur für Sicherheit und Gesundheitsschutz am Arbeitsplatz zu schaffen. Wir bemühen uns auch um die Verhütung von Unfällen und Krankheiten. Jeder in Parladi ist verpflichtet, das zu tun und zu melden, was zu tun ist. Um uns ständig zu verbessern, glauben wir, dass Sicherheit und Gesundheit damit beginnen, wie sauber und diszipliniert ein Arbeitsplatz ist.



TR İŞ GÜVENİĞİ POLİTİKAMIZ

- İşyeri ve eklentilerinde; çalışanların, alt yüklenicilerin, ziyaretçilerin ve işyeri dışında çalışan şirket personelimizin sağlık ve güvenliklerini temin etmek için, yürürlükte bulunan İSG mevzuatlarına ve İSG ile ilgili diğer gerekliliklere uygun olarak her türlü tedbiri almayı, araç gereç ve Kişisel Koruyucu Ekipmanları bulundurmamayı, gereğinde kullanılmasını sağlamayı,
- İşyeri ve eklentilerinde iş kazası ve meslek hastalığı doğurabilecek emniyetsiz durum ve hareketleri, olası kaza risklerini, etkin bir risk değerlendirmesi yaparak önceden tespit etmeyi ve ortadan kaldırmayı,
- Çalışanlarımızın iş sağlığı ve güvenliği alanında işe girişleri ve periyodik kontrolleri düzenli olarak işyeri hekimi tarafından kontrol edilmektedir. Özel durum gerektiren çalışanlarımızın 6 ayda bir periyodik kontrolleri de ayrıca takip edilmektedir. Pandemi koşulları gereği gerekli düzenlemeler yapıлып sürekliliğin sağlanmasını,
- İşyerinde iş kazası ve meslek hastalığına sebep olabilecek riskleri tespit edip, her seviyedeki çalışanların, ziyaretçilerin, alt yüklenicilerin sağlık, güvenlik ve sosyal refahlarını temin etmeyi, kendilerine ve ailelerine ait ileride doğabilecek her türlü maddi ve manevi kayıpları azaltmayı,
- Çalışanlarımızı iş sağlığı ve güvenliği alanında eğitmeyi ve iyi bir iş sağlığı ve güvenliği bilincine erişmelerini sağlamayı,
- İş Sağlığı ve Güvenliği konusunda teknolojik gelişmeleri takip etmeyi ve yatırımlarımızı ona göre yönlendirmeyi,
- İşyerimize gelen müşteri ve ziyaretçilerin de PARLADI METAL SANAYİ VE LTD. ŞTİ. 'nin koymuş olduğu iş sağlığı ve güvenliği ile ilgili kurallara uymalarını sağlamayı,
- Endüstriyel dünyanın gelişimini göz önüne alarak, gelecekte karşılaşılabilecek olası durumları bugünden tahmin etmeyi, sürekli gelişmeyi ve durumumuzu gözden geçirmeyi,
- İSG yönetim sisteminin performansını ölçmeyi ve performansı arttırmak adına çalışmalar yapmayı,
- Bu doğrultuda kurulmuş ve yürütülmekte olan İSG Yönetim Sistemimizin sürekliliğini sağlamayı

İSG politikamız olarak taahhüt ederiz.

EN

To achieve all that;

- We make sure that our employees, subcontractors, visitors, customers and our personnel working outside the workplace comply with the legal regulations about taking all kinds of measures.
- We determine the risky possibilities and take effective measures in advance.
- By our workplace physician our employees get checked at the recruitment process and later once a week. Some of our employees who need special care get checked monthly.
- We train and test our employees by testing their practice on paper and in the workplace.
- We keep up with the recent developments in our area and incorporate them as soon as possible.

EN

Um all dies zu erreichen;

- Wir stellen sicher, dass unsere Mitarbeiter, Subunternehmer, Besucher, Kunden und unser Personal, das außerhalb des Arbeitsplatzes tätig ist, die gesetzlichen Vorschriften zur Durchführung aller Arten von Maßnahmen einhalten.
- Wir ermitteln die Gefährdungsmöglichkeiten und ergreifen im Vorfeld wirksame Maßnahmen.
- Durch unseren Arbeitsmediziner werden unsere Mitarbeiter bei der Einstellung und später einmal pro Woche untersucht. Einige unserer Mitarbeiter, die eine besondere Betreuung benötigen, werden monatlich untersucht.
- Wir schulen und prüfen unsere Mitarbeiter, indem wir ihre Praxis auf dem Papier und am Arbeitsplatz testen.
- Wir halten uns über die neuesten Entwicklungen in unserem Bereich auf dem Laufenden und setzen sie so schnell wie möglich um.



KALİTE POLİTİKAMIZ

TR Metal sektöründe firmamızı kalıcı ve başarılı kılan en önemli özellik; müşterilerimize satış öncesi ve sonrası teknik destek sağlamamızdır.

Kalite departmanı olarak müşteri istek ve beklentileri doğrultusunda ana bobin (hammadde) girişinden ebatlandırılmış ürün sevkine kadar geçen süreçteki tüm adımlarda kalite kontrol faaliyetlerimizi "Kalite Politikamız" ilke edinerek gerçekleştirmekteyiz.

Tecrübeli, dinamik ekibimizle "sıfır hata" oranını hedefleyerek, sektöründe "sürekli iyileştirmeye" önem veren "yaygınlaştırma" çalışmalarını ile makine parkurumuzda kalite temellerini atmaktayız.

TS ISO Standartları çerçevesinde; metal sektöründe şirket yapısına uygun yönetimin desteği ile kalite güvence faaliyetlerini ERP sisteminden alınan veriler ile periyodik raporlar ile analiz edilmektedir.

Müşteri istekleri doğrultusunda PPAP dokümanları, IMDS verileri vb. teknik argüman desteğimizi ile verimli, etkin ve hızlı bir şekilde müşterilerimize ulaştırmaktayız.

Hammadde kabul, üretim, planlama, lojistik, sevkiyat süreçlerinde kalite kontrol faaliyetlerini (tespit, kayıt altına almak, önlem almak, DÖF, geçici/kalıcı aksiyon, ERP analiz) sürdürülebilir bakış açısı ile sağlamaktayız.



OUR QUALITY POLICY

EN What made Parladi successful for 44 years is that we care for our customers before and after sales. As quality department we check the material in its each and every step from coil till the shipping process. Our guidance for quality consists of many layers. Some of these layers are our customers instructions and expectation, Turkish standard Institute guidance, and our own quality policy which aims for zero error rate. In Parladi to achieve our "zero error" aim we use the data and periodic reports received from our ERP system. In line with our customer's request, we also provide technical data such as PPAP documents and IMDS data.

In Parladi we reached technical accountability as of %98 in all processes. we achieved this by following up with all processes electronically. In this way a customer of us can track back to the origin coil and the mechanical and chemical components of this coil if they need.

To achieve this, we recorded all the processes into the system such as raw material acceptance, production, planning, logistics, shipment, quality control activities.

D

UNSERE QUALITÄTSPOLITIK

Was Parladi seit 44 Jahren erfolgreich macht, ist, dass wir uns vor und nach dem Verkauf um unsere Kunden kümmern. Als Qualitätsabteilung prüfen wir das Material in jedem einzelnen Schritt, vom Coil bis zum Versandprozess. Unser Qualitätsmanagement besteht aus vielen Ebenen. Einige dieser Ebenen sind die Anweisungen und Erwartungen unserer Kunden, die Richtlinien des türkischen Standardinstituts und unsere eigene Qualitätspolitik, die auf eine Null-Fehler-Rate abzielt. In Parladi nutzen wir zur Erreichung unseres "Null-Fehler"-Ziels die Daten und regelmäßigen Berichte aus unserem ERP-System. Auf Wunsch unserer Kunden stellen wir auch technische Daten wie PPAP-Dokumente und IMDS-Daten zur Verfügung.

In Parladi haben wir in allen Prozessen eine technische Verantwortlichkeit von 98 % erreicht, indem wir alle Prozesse elektronisch nachverfolgen. Auf diese Weise kann ein Kunde von uns bei Bedarf bis zum Ursprungcoil und den mechanischen und chemischen Komponenten dieses Coils zurückverfolgen.

Um dies zu erreichen, haben wir alle Prozesse wie Rohstoffannahme, Produktion, Planung, Logistik, Versand und Qualitätskontrolle in das System eingegeben.

- TR** Yönetimin kalite iyileştirme konusunda ihtiyaç duyduğu her türlü veri ve bilgiyi en kısa sürede sonuçlarıyla rapor halinde sunmaktadır.
- Tüm personel ile samimi ve sıcak diyaloglarda bulunarak en alt seviyedeki personelden en üst seviyedeki yöneticiye kadar ulaşarak, aksamları görmek, aksamları giderici tavsiyelerle birlikte yönetime sunmaktadır.
- Ürünlerde ve sistemde olası zayıf noktaların aranması , saptanması, bu zayıflıkların giderilmesi için düzeltici önlemlerin alınmasının ve sürdürülmesinin sağlanması. Alınan düzeltici önlemlerin doğrulanması yapılmaktadır.
- Müşteri şikayetlerinin değerlendirilmesini yapmak ve takip etmek.
- Çalışan personelin sürekli eğitilmesini sağlamak için, personelin eğitim ihtiyaçlarını belirlemekte ve bunları İnsan Kaynakları Müdürlüğüne bildirmekte ve eğitimin planlanmasını ve uygulamasını sağlamak.
- Personeldeki motivasyonu sürekli inceleyerek ,durumu yönetime bildirmek ve motivasyonu artırıcı önlemleri yönetime tavsiye etmek.
- Birlikte çalıştığı personele şirketimizin kalite politikasını, kalite hedeflerini,biriminde geçerli olan prosedürleri, talimatları ve formları ayrıca personelin görev tanımlarını benimsemesini ve bu çerçevede çalışmasını sağlamak.
- EN** We present all kinds of data and information to the management about quality improvement in a report with the results as soon as possible. We do this by having sincere and warm dialogues with the lowest level personnel to the highest. In this way we can come up with recommendations to remedy the disruptions.
- To detect and eliminate possible weak points in our products and systems we take corrective measures and verify the correctness of the taken measures. In all stages we handle customer complaints and we give the necessary training to our personnel.
- In short, we guard our company's quality policy with the help of our continuously developing quality targets, technological procedures. To do so we begin from the personnel and we teach them the right forms and instructions to our personnel as well as making sure that our personnel know and adopt their duties.
- D** Wir legen dem Management alle Arten von Daten und Informationen zur Qualitätsverbesserung in einem Bericht vor, der die Ergebnisse so schnell wie möglich enthält. Wir tun dies, indem wir aufrichtige und herzliche Dialoge mit den Mitarbeitern der untersten bis höchsten Ebene führen. Auf diese Weise können wir Empfehlungen zur Behebung der Störungen aussprechen.
- Um mögliche Schwachstellen in unseren Produkten und Systemen zu erkennen und zu beseitigen, ergreifen wir Korrekturmaßnahmen und überprüfen die Richtigkeit der getroffenen Maßnahmen. In allen Phasen bearbeiten wir Kundenbeschwerden und schulen unser Personal entsprechend.
- Kurzum, wir sichern die Qualitätspolitik unseres Unternehmens mit Hilfe unserer sich ständig weiterentwickelnden Qualitätsziele und technologischen Verfahren. Dabei gehen wir vom Personal aus und bringen ihm die richtigen Formulare und Anweisungen bei und stellen sicher, dass unser Personal seine Pflichten kennt und übernimmt.



International
Organization for
Standardization

5S STANDARTLARI ve ENERJİ VERİMLİLİĞİ

5S

- TR** Enerji verimliliğinde firmamızın hedefi; üretimde, konforumuzda ve iş gücümüzde herhangi bir kayıp olmadan enerjini en doğru şekilde kullanmak, israf etmemektir.
- EN** 5S and energy efficiency: our ultimate goal is to watch and use the energy the most logical and ecological way possible. We do this without creating a burden to our employees' comfort and to the production. We believe that working efficient and ecological is one of our biggest investment for a better world for our children.
- D** 5S und Energieeffizienz: Unser oberstes Ziel ist es, die Energie so logisch und ökologisch wie möglich zu beobachten und zu nutzen. Wir tun dies, ohne den Komfort unserer Mitarbeiter und die Produktion zu beeinträchtigen. Wir glauben, dass effizientes und ökologisches Arbeiten eine unserer größten Investitionen für eine bessere Welt für unsere Kinder ist.



RAKAMLARLA PARLADI

PARLADI WITH NUMBERS / PARLADI MIT ZAHLEN

Ciro

TURNOVER
UMSATZ

1.000.000.000 TL

Yatırım

INVESTMENT
INVESTITION

30.000.000 TL

Personel

EMPLOYEE
MITARBEITER

164

Kapalı Üretim Alanı

CLOSED PRODUCTION AREA
GESCHLOSSENER PRODUKTIONSBEREICH

23.000 m²

Metal İşleme Kapasitesi

METAL PROCESSING CAPACITY
METALLVERARBEITUNGSKAPAZITÄT

200.000 Ton/Yıl





Parladı Metal, kuruluşundan bugüne Türkiye'nin en büyük yassı çelik üreticisi ERDEMİR'in en önemli partnerlerinden biri konumundadır.

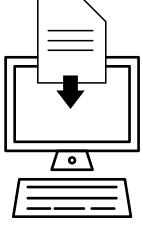
Parladı Metal has been one of the most valuable partners of ERDEMİR, which is the biggest and oldest flat steel producer in Turkey.

Parladı Metal ist einer der wichtigsten Partner von ERDEMİR, dem größten und ältesten Flachstahlhersteller der Türkei.

ONLINE LAZER KESİM HİZMETİ

QUOTING SOFTWARE / ANGEBOTSSOFTWARE

- ① Üretimi yapılacak parçanın DXF çizim datasını sisteme yükleyin.



Upload your DXF data to our system

Laden Sie Ihre DXF-Daten in unser System hoch.

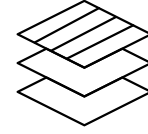
- ② Bir kaç saniye içerisinde kendi teklifinizi oluşturun.



Create your offer in seconds

Erstellen Sie Ihr Angebot in Sekunden.

- ③ Siparişiniz müşteri temsilcimiz tarafından hızlıca fiyatlandırılır.



Your offer will be quickly reviewed by our employee.

Ihr Angebot wird schnell von unserem Mitarbeiter geprüft.



TR Dijital dönüşüm teknolojilerinin çok önemli olduğu bu dönemde müşterilerimizin ihtiyaçlarına daha hızlı cevap verebilmek adına "create your own quote" sistemini geliştirmiş bulunuyoruz. Yeni geliştirdiğimiz sistem sayesinde müşterilerimiz diledikleri an web sitemizden üye olup, parça çizimlerini import ederek optimum tekliflerini oluşturabilirler. Laser kesim, boya,

kaynak ve büküm gibi işlemler için anında fiyat teklifi alabilirler. Sistemden teklifi onaylayan müşterimiz için üretim başlayacaktır. Müşterilerimiz kendi sistem panelinden parçaların üretim durumlarını takip edebilir, süreç ile ilgili bilgi sahibi olabilirler. Müşteri ve üretici için kendi sistem panellerinden erişebilecekleri istatistiksel veri içeren raporlar mevcuttur.

<http://pari.parladi.com>

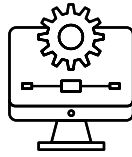
④ Size özel teklif en kısa sürede mail kutunuza gelir.



ou will receive your offer within shortest time by e-mail

Sie erhalten Ihr Angebot innerhalb kürzester Zeit per E-Mail.

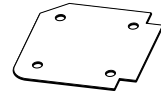
④ Onay sürecini takiben ürününüz üretime alınır.



After approval, your order goes into production

Nach der Freigabe geht Ihr Auftrag in die Produktion.

⑤ En kısa sürede parçanız üretilerek teslim edilir.



And will be delivered to your home delivered.

Und wird zu Ihnen nach Hause geliefert.

EN

In this period when digital transformation technologies are very important, we have developed the "create your own quote" system in order to respond to the needs of our customers more quickly. With the system we have developed, our customers can sign up from our website at any time and create their own quotes by importing part drawings. They can get optimum quotes for processes such as

laser cutting, painting, welding and bending. Production will start for our customer who approves the offer from the system. Our customers can follow the production status of the parts from their own system panel and have information about the process. There are reports containing statistical data for the customer and the manufacturer that they can access from their own system panels.

D

In dieser Zeit, in der Technologien zur digitalen Transformation sehr wichtig sind, haben wir das System "Erstellen Sie Ihr eigenes Angebot" entwickelt, um schneller auf die Bedürfnisse unserer Kunden reagieren zu können. Mit dem von uns entwickelten System können sich unsere Kunden jederzeit auf unserer Website anmelden und durch den Import von Teilezeichnungen ihre eigenen Angebote erstellen. Sie können optimale Angebote für Verfahren wie La-

serschneiden, Lackieren, Schweißen und Biegen erhalten. Die Produktion beginnt für unseren Kunden, der das Angebot im System freigibt. Unsere Kunden können den Produktionsstatus der Teile von ihrem eigenen Systempanel aus verfolgen und erhalten Informationen über den Prozess. Es gibt Berichte mit statistischen Daten für den Kunden und den Hersteller, auf die sie von ihrem eigenen Systempanel aus zugreifen können.



PARLADI METAL LAYOUT





MAKİNE 1 MACHINE 1 / MASCHINE 1

7. Bölüm Boy Kesme Hattı Teknik Özellikler
7. Section Cut To Length Line Technical Specifications
7. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	0,4	2,5	mm
Genişlik / Width / Breite	250	1100	mm
Boy / Lenght / Länge	300	1900	mm
Giriş Rulo Ağırlığı / Coil Base Weight / Gewicht der Spulenbasis	500	15000	mm
Çıkış Paket Ağırlığı / Output Package Weight / Gewicht des Ausgabepakets	50	5000	kg
Dış Çap / Outside Diameter / Außendurchmesser	600	1600	kg
Boy Hassasiyeti / Length Sensitivity / Längenempfindlichkeit	±0,20		mm
İstif yüksekliği / Stack height / Höhe des Stapels		500	mm

MAKİNE 2 MACHINE 2 / MASCHINE 2

8. Bölüm Boy Kesme Hattı Teknik Özellikler
8. Section Cut To Length Line Technical Specifications
8. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	2,5	6,0	mm
Genişlik / Width / Breite	280	1550	mm
Boy / Lenght / Länge	300	5000	mm
Giriş Rulo Ağırlığı / Coil Base Weight / Gewicht der Spulenbasis	500	15000	mm
Çıkış Paket Ağırlığı / Output Package Weight / Gewicht des Ausgabepakets	50	5000	kg
Dış Çap / Outside Diameter / Außendurchmesser	600	1600	kg
Boy Hassasiyeti / Length Sensitivity / Längenempfindlichkeit	±0,50		mm
İstif yüksekliği / Stack height / Höhe des Stapels		500	mm

MAKİNE 3 MACHINE 3 / MASCHINE 3

4. Bölüm Boy Kesme Hattı Teknik Özellikler
4. Section Cut To Length Line Technical Specifications
4. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications	Min	Max	Birim/Unit
Kalınlık / Thickness / Dicke	0,3	2,0	mm
Genişlik / Width / Breite	250	1500	mm
Boy / Lenght / Länge	250	3000	mm
Giriş Rulo Ağırlığı / Coil Base Weight / Gewicht der Spulenbasis	500	15000	mm
Çıkış Paket Ağırlığı / Output Package Weight / Gewicht des Ausgabepakets	50	5000	kg
Dış Çap / Outside Diameter / Außendurchmesser	600	1600	kg
Boy Hassasiyeti / Length Sensitivity / Längenempfindlichkeit	±0,2		mm
İstif yüksekliği / Stack height / Höhe des Stapels		500	mm

BOY KESME CUT TO LENGTH / AUF LÄNGE SCHNEIDEN
MAKİNE 4 MACHINE 4 / MASCHINE 4

- 9.Bölüm Boy Kesme Hattı Teknik Özellikler
 9. Section Cut To Length Line Technical Specifications
 9. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	0,3	2,5	mm
Genişlik / Width / Breite	265	1500	mm
Boy / Length / Länge	210	3100	mm
Giriş Rulo Ağırlığı / Coil Base Weight / Gewicht der Spulenbasis	500	17000	kg
Çıkış Paket Ağırlığı / Output Package Weight / Gewicht des Ausgabepakets	50	5000	kg
Dış Çap / Outside Diameter / Außendurchmesser	600	1600	mm
Boy Hassasiyeti / Length Sensitivity / Längenempfindlichkeit	±0,2		mm
İstif yüksekliği / Stack height / Höhe des Stapels		500	mm

MAKİNE 5 MACHINE 5 / MASCHINE 5

- 9.Bölüm Multi Boy Kesme Hattı Teknik Özellikler
 9. Section Cut To Length Line Technical Specifications
 9. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	0,3	2,0	mm
Genişlik / Width / Breite	250	1280	mm
Boy / Length / Länge	250	2900	mm
Giriş Rulo Ağırlığı / Coil Base Weight / Gewicht der Spulenbasis	500	15000	mm
Çıkış Paket Ağırlığı / Output Package Weight / Gewicht des Ausgabepakets	50	5000	kg
Dış Çap / Outside Diameter / Außendurchmesser	600	1600	kg
Boy Hassasiyeti / Length Sensitivity / Längenempfindlichkeit	±1		mm
İstif yüksekliği / Stack height / Höhe des Stapels		500	mm

MAKİNE 6 MACHINE 6 / MASCHINE 6

- 9.Bölüm Kalın Boy Kesme Hattı Teknik Özellikler
 9. Section Cut To Length Line Technical Specifications
 9. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	2,5	6,0	mm
Genişlik / Width / Breite	300	1500	mm
Boy / Length / Länge	250	2400	mm
Giriş Rulo Ağırlığı / Coil Base Weight / Gewicht der Spulenbasis	500	17000	mm
Çıkış Paket Ağırlığı / Output Package Weight / Gewicht des Ausgabepakets	50	5000	kg
Dış Çap / Outside Diameter / Außendurchmesser	600	1600	kg
Boy Hassasiyeti / Length Sensitivity / Längenempfindlichkeit	±0,2		mm
İstif yüksekliği / Stack height / Höhe des Stapels		500	mm

MAKİNE 7 MACHINE 7 / MASCHINE 7

- 5.Bölüm Boy Kesme Hattı Teknik Özellikler
 5. Section Cut To Length Line Technical Specifications
 5. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	0,25	1,1	mm
Genişlik / Width / Breite	330	1470	mm
Boy / Length / Länge	250	2500	mm
Giriş Rulo Ağırlığı / Coil Base Weight / Gewicht der Spulenbasis	500	12000	mm
Çıkış Paket Ağırlığı / Output Package Weight / Gewicht des Ausgabepakets	50	5000	kg
Dış Çap / Outside Diameter / Außendurchmesser	600	1600	kg
Boy Hassasiyeti / Length Sensitivity / Längenempfindlichkeit	±0,50		mm
İstif yüksekliği / Stack height / Höhe des Stapels		500	mm

MAKAS GUILLOTINE / GUILLOTINE

MAKAS 1 GUILLOTINE 1 / GUILLOTINE 1

3.Bölüm Makas Kesim Hattı Teknik Özellikler
3.Section Guillotine Technical Specifications
3. Abteilung: Technische Daten des Gilliotinschnittes

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	0,6	3,5	mm
Genişlik / Width / Breite	10	1000	mm
Boy / Length / Länge	10	3100	mm
Boy Hassasiyeti / Length sensitivity / Längensensitivität	±0,2	-	mm
Köşegen Toleransı(Çap) / Diagonal Tolerance(Diameter) / Diagonaltoleranz	0,5	1	mm

MAKAS 2 GUILLOTINE 2 / GUILLOTINE 2

3.Bölüm Makas Kesim Hattı Teknik Özellikler
3.Section Guillotine Technical Specifications
3. Abteilung: Technische Daten des Gilliotinschnittes

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/ Einheit
Kalınlık / Thickness / Dicke	0,6	3,5	mm
Genişlik / Width / Breite	10	760	mm
Boy / Length / Länge	10	3100	mm
Boy Hassasiyeti / Length sensitivity / Längensensitivität	±0,2	-	mm
Köşegen Toleransı(Çap) / Diagonal Tolerance(Diameter) / Diagonaltoleranz	0,5	1	mm

MAKAS 3 GUILLOTINE 3 / GUILLOTINE 3

3.Bölüm Makas Kesim Hattı Teknik Özellikler
3.Section Guillotine Technical Specifications
3. Abteilung: Technische Daten des Gilliotinschnittes

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	3	1,2	mm
Genişlik / Width / Breite	10	600	mm
Boy / Length / Länge	10	2400	mm
Boy Hassasiyeti / Length sensitivity / Längensensitivität	±0,5	-	mm
Köşegen Toleransı(Çap) / Diagonal Tolerance(Diameter) / Diagonaltoleranz	0,5	1	mm

MAKAS 4 GUILLOTINE 4 / GUILLOTINE 4

3.Bölüm Makas Kesim Hattı Teknik Özellikler
3.Section Guillotine Technical Specifications
3. Abteilung: Technische Daten des Gilliotinschnittes

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	1,2	4,5	mm
Genişlik / Width / Breite	10	750	mm
Boy / Length / Länge	10	2400	mm
Boy Hassasiyeti / Length sensitivity / Längensensitivität	±0,5	-	mm
Köşegen Toleransı(Çap) / Diagonal Tolerance(Diameter) / Diagonaltoleranz	0,5	1	mm

MAKAS 5 GUILLOTINE 5 / GUILLOTINE 5

3.Bölüm Makas Kesim Hattı Teknik Özellikler
3.Section Guillotine Technical Specifications
3. Abteilung: Technische Daten des Gilliotinschnittes

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	0,2	1,2	mm
Genişlik / Width / Breite	10	1550	mm
Boy / Length / Länge	10	3100	mm
Boy Hassasiyeti / Length sensitivity / Längensensitivität	±0,5	-	mm
Köşegen Toleransı(Çap) / Diagonal Tolerance(Diameter) / Diagonaltoleranz	0,5	1	mm

DİLME SLITTING LINE / IN STREIFEN SCHNEIDEN

MAKİNE 1 MACHINE 1 / MASCHINE 1

- 5.Bölüm Dilme Hattı teknik Özellikler
 5. Section Slitting Line Technical Specifications
 5. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	0,25	2	mm
Genişlik / Width / Breite	150	1500	mm
Dilme Sayısı / Strip Number / Anzahl der Bänder	1	19	Adet
Dilme Genişliği / Strip Number / Breite des Bandes	15	1500	mm
Giriş Rulo Ağırlığı / Base Coil Weight / Gewicht der Grundspule	500	13000	kg
Çıkış Rulo Ağırlığı / Output Coil Weight / Gewicht der Ausgangsspule	200	13000	kg
Bıçak genişliği / Blade width / Breite der Klinge	10	15	mm
Dış Çap / Outside Diameter / Äußerer Durchmesser	600	1500	mm
Dilme Hassasiyeti / Slitting Sensivity / Spalt-Empfindlichkeit	±0,2		mm

MAKİNE 2 MACHINE 2 / MASCHINE 2

- 6.Bölüm Dilme Hattı teknik Özellikler
 6. Section Slitting Line Technical Specifications
 6. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	2	3,5	mm
Genişlik / Width / Breite	150	1400	mm
Dilme Sayısı / Strip Number / Anzahl der Bänder	1	13	Adet
Dilme Genişliği / Strip Number / Breite des Bandes	16	1400	mm
Giriş Rulo Ağırlığı / Base Coil Weight / Gewicht der Grundspule	500	15000	kg
Çıkış Rulo Ağırlığı / Output Coil Weight / Gewicht der Ausgangsspule	200	15000	kg
Bıçak genişliği / Blade width / Breite der Klinge	10	20	mm
Dış Çap / Outside Diameter / Äußerer Durchmesser	600	1500	mm
Dilme Hassasiyeti / Slitting Sensivity / Spalt-Empfindlichkeit		±0,2	mm

MAKİNE 3 MACHINE 3 / MASCHINE 3

- 9.Bölüm Dilme Hattı teknik Özellikler
 9. Section Slitting Line Technical Specifications
 9. Technische Daten der Querteilanlage

Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	0,25	2	mm
Genişlik / Width / Breite	150	1280	mm
Dilme Sayısı / Strip Number / Anzahl der Bänder	1	15	Adet
Dilme Genişliği / Strip Number / Breite des Bandes	15	1280	mm
Giriş Rulo Ağırlığı / Base Coil Weight / Gewicht der Grundspule	500	20000	kg
Çıkış Rulo Ağırlığı / Output Coil Weight / Gewicht der Ausgangsspule	200	20000	kg
Bıçak genişliği / Blade width / Breite der Klinge	10	15	mm
Dış Çap / Outside Diameter / Äußerer Durchmesser	600	1500	mm
Dilme Hassasiyeti / Slitting Sensivity / Spalt-Empfindlichkeit		±0,2	mm

MAKİNE 4 MACHINE 4 / MASCHINE 4

- 9.Bölüm Dilme Hattı teknik Özellikler
 9. Section Slitting Line Technical Specifications
 9. Technische Daten der Querteilanlage

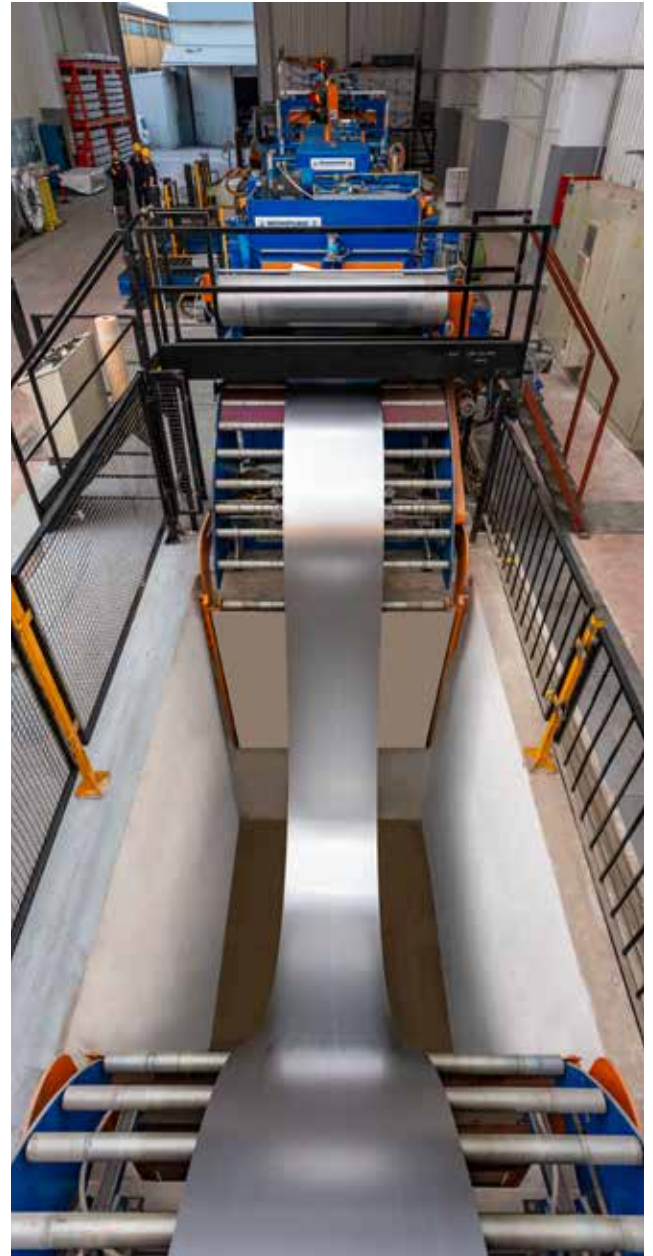
Teknik Özellikler / Technical specifications / Technische Daten	Min	Max	Birim/Unit/Einheit
Kalınlık / Thickness / Dicke	1	8	mm
Genişlik / Width / Breite	150	1500	mm
Dilme Sayısı / Strip Number / Anzahl der Bänder	1	13	Adet
Dilme Genişliği / Strip Number / Breite des Bandes	20	1500	mm
Giriş Rulo Ağırlığı / Base Coil Weight / Gewicht der Grundspule	500	20000	kg
Çıkış Rulo Ağırlığı / Output Coil Weight / Gewicht der Ausgangsspule	200	20000	kg
Bıçak genişliği / Blade width / Breite der Klinge	10	20	mm
Dış Çap / Outside Diameter / Äußerer Durchmesser	600	1500	mm
Dilme Hassasiyeti / Slitting Sensivity / Spalt-Empfindlichkeit		±0,2	mm

BOY KESME HATTI (B Yüzey)

CUT TO LENGTH / QUERTEILANLAGE



Technical specifications	Line-1		Line-2		Line-3		Line-4	
	Min	Max	Min	Max	Min	Max	Min	Max
Thickness	0,3	2	0,25	1,1	0,4	1,2	2,5	8
Width	200	1630	330	1470	250	1800	300	1550
Lenght	250	3000	300	2000	300	3500	300	4000
Coil Base Weight	500	25000	500	15000	500	25000	500	15000
Output Package Weight	50	5000	50	5000	50	5000	50	5000
Outside Diameter	600	1600	600	1600	600	1600	600	1600
Length Sensitivity	+/-0,2		+/-0,5		+/-0,2		+/-0,5	
Tonnage	15	60	13	40	30	80	40	90
Stack Height	500		500		500		500	



Line-5		Line-6		Line-7		Line-8		Unit
Min	Max	Min	Max	Min	Max	Min	Max	
0,3	1,2	2,5	4	0,25	1,2	1,5	4,5	mm
250	1250	300	1500	80	480	70	600	mm
300	2400	400	4000	150	2500	150	2500	mm
500	15000	500	17000	500	3500	500	4800	mm
50	5000	50	5000	50	3000	50	3000	kg
600	1600	600	1600	600	1100	600	1100	kg
+/-1		+/-0,2		+/-1		+/-1		mm
20	50	40	0	8	17	10	18	tons/hour
500		500		500		500		mm

BOY KESME HATTI

CUT TO LENGTH / QUERTEILANLAGE





BOY KESME HATTI

CUT TO LENGTH / QUERTEILANLAGE





MULTI BLANKING



Technical specifications	Min	Max
Thickness	0,3	2
Width	265	1500
Length	250	3100
Coil Base Weight	500	20000
Output Package Weight	50	5000
Outside Diameter	600	1600
Length Sensitivity	+/-0,2	
Tonnage	20	60
Stack Height	500	



DİLME HATTI

SLITTING LINE / LÄNGSTEILANLAGE



Technical specifications	Line-1		Line-2		Line-3		Line-4		Unit
	Min	Max	Min	Max	Min	Max	Min	Max	
Thickness	0,3	2	0,3	2	2	4	2	8	mm
Width	15	1530	15	1280	150	1380	150	1500	mm
Strip Number	1	19	1	15	1	13	1	13	vpcs
Strip Width	10	1520	10	1280	16	1400	24	1500	mm
Base Coil Weight	250	24000	500	20000	500	20000	500	30000	kg
Output Coil Weight	200	22000	200	20000	200	15000	200	20000	kg
Blade Width	10	15	10	15	10	20	10	20	mm
Outside Diameter	600	1500	600	1500	600	1500	600	1500	mm
Tonnage	70	150	60	130	70	110	80	150	tons/hour
Slitting Sensivity	+/-0,2								mm



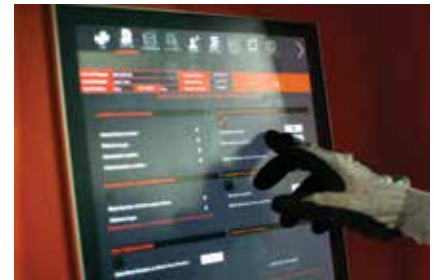
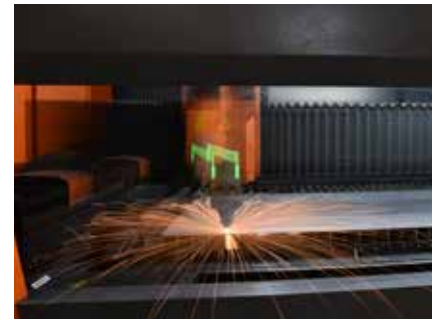


Technical specifications	Line-1		Line-2		Line-3		Line-4		Line-5		Line-6	
	min	max	min	max	min	max	min	max	min	max	min	max
Thickness	0,6	3,5	0,4	3,5	0,3	1,2	1,2	4,5	0,2	1,2	0,2	1,2
Width	10	1000	10	760	10	600	10	750	150	1550	150	1550
Lenght	10	3100	10	3100	10	2400	10	2400	10	3100	10	3100
Coil Base Weight	+/- 0,5											
Diagonal Tolerance	0,5	1	0,5	1	0,5	1	0,5	1	0,5	1	0,5	1



LAZER KESİM - ABKANT

LASER CUTTING - PRESS BRAKES / LASERSCHNEIDEN - ABKANT PRESSEN



Kalınlık	Thickness	Dicke	0.30-20.00mm	
Saç Ebatları	Sheet Dimensions	Arbeitsbereich	2030mm x 4050mm	
Rezonatör (kW)	Resonator (kW)	Resonator Leistung (kW)	4,6,12	
Eksenler	Axis	Achsen	x	4050mm
			y	2030mm
			z	80mm
Maksimum Yükleme Kapasitesi	Maximum Loading Capacity	Maximale Ladepazität	3500kg	
Konumlandırma Sistemi	Positioning System	Positionierungssystem	Lineer Motor	
İvmelenme	Acceleration	Beschleunigung	22 m/s,	
Eksen Hızları	Axis Speed	Achsen Geschwindigkeit (X,Y simultane Geschwindigkeit)	200 m/min	
Pozisyonlama Hassasiyeti / (Pa)	Positioning Accuracy (Pa)	Positionierung Genauigkeit Pa	"0.05 mm	
"Kontrol Paneli	Controller	Bedienpult	19" Multi Touch Screen	
Yardımcı Gaz	Assist Gas	Hilfsgas	Oksijen (O ₂) : 15 Bar Azot (N ₂) : 25 Bar	



Kalınlık / Thickness / Dicke
0.50-10.00 mm



PVC DESTEK PROFİLİ

Reinforcements For Pvc Profiles / Verstärkungen Für Pvc Profile



Kalınlık / Thickness / Dicke
0.70 - 2.00 mm

KAYNAK - BOYA - KAPLAMA

Welding - Painting - Coating / Schweißen - Lackierung - Beschichtung



Parladı Metal olarak müşteri taleplerine göre kaynak, katoforez ve boya hizmetlerimiz de mevcuttur.

We also provide welding, painting and cataphoresis coating services.

Wir bieten auch Schweißen, Lackierung und Beschichtungsdienste an.

SEVKİYAT - DEPO

SHIPPING - DEPOT / VERSAND - LAGER





Türkiye'den Dünyaya

From Turkey

Aus der



to the world
Türkei in die Welt



Valeo



BOSCH

TOFAŞ



**Beyçelik
Gestamp**



Electrolux



arçelik



ERMAKSAN
INNOVATIVE TECHNOLOGIES



ER METAL

bosal VESTEL

TIBERINA



Angst+Pfister



LG

beko

MARTUR
Automotive Seating Systems



OTOMOTİV / AUTOMOTIVE / AUTOMOBILE



MAKİNE / MACHINE / MASCHINE

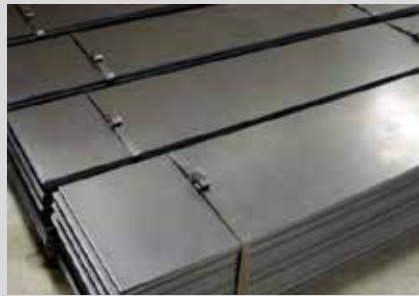


YAPI / STRUCTURE / AUFBAU



MOBİLYA / FURNITURE / MÖBEL





YASSI ÜRÜN KATALOĞU

FLAT STEEL PRODUCTING

FLACHSTAHL-PRODUKTE



ÖĞÜ

YASSI ÜRÜN KATALOĞU

FLAT STEEL PRODUCT CATALOGUE
FLACHSTAHL-PRODUKTKATALOG



SICAK HADDELENMİŞ YASSI ÇELİK ÜRÜNLER

Hot Rolled Flat Steel / Warmgewalztes Flachstahl

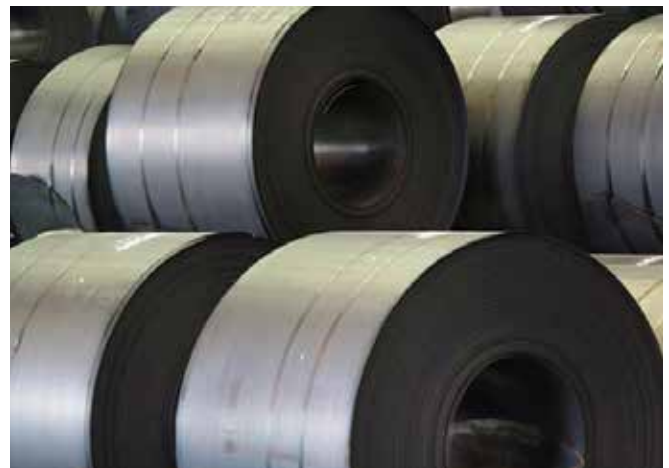


PROPERTIES	STANDARD	GRADE
Low-carbon unalloyed mild steels for cold reducing with the obligation of batch annealing	DIN 1614-1:1986	St 22
		St 22 Mod
		RRSt 23
		St 24
		St 22
Carbon steels for vitreous enameling after cold reducing	ERDEMİR	6523
		7524
Deep-drawing and cold forming	EN 10111:2008	DD11
		DD12
		DD14
Structural and automotive steel based on customer specification	CUSTOMER	DD13
		VAW HRC1/HRC3
Unalloyed carbon steels with intermediate strength for pipe and tube production.	ERDEMİR	18Mn5
		2008
		A
		A
Weldable fine grain structural steels in Normalized Condition	EN 10025-3:2004	B
		C
		S355N
High yield steels for cold forming	EN 10149-2:2013	S355NL
		S420N
		S460N
		S315MC
		S355MC
		S420MC
		S420MC (CT A)
		S460MC
		S460MC /CT A)
		S500MC
		S550MC
		S600MC
		S650MC
S700MC		
High yield steels for cold forming based on customer specification		S460MC
Wheel steels with Low Strength	EN 10111:2008	DD13 Mod

PROPERTIES	STANDARD	GRADE
Medium, Low Strength Steels for Automotive Industry, Mostly for Wheel Rims	EN 10025-2:2004	S235J2
		S275JRC
		S275J2
High, Medium Strength Steels for Automotive Industry, Mostly for Discs	EN 10025-2:2004	S235JRC
		S275JRC Mod
Wheel Steels with High Strength	EN 10149-2:2013	S355MC
Steel Suitable For Usage Under Low Pressure	EN 10207:2005	P275SL
Carbon Steel with Intermediate Tensile Strength for Pressure Vessels	ASTM A285	C
	LR - 2 - 2008	490FG
Carbon Steels for Pressure Purposes at Moderate and Lower Temperature Services	ASTM A516-17	55
		60
		65
		70
Pipe Production	ERDEMİR	6350
Normalized Fine Grained Steels Suitable for Pressure Purposes	EN 10028-3:2017	P355NH
		P355NL1
		P355NH/P355NL1
Steel for Manufacturing of Welded Pipes for Pressure Purposes	EN 10217-1:2002+A1:2005	P235TR1
Unalloyed Steels for Pressure Purposes at Elevated Temperatures	EN 10028-3:2017	P235GH
		P265GH
		P295GH
		P355GH
Welded Gas Cylinders (LPG Tubes)	EN 10120:2008	P245NB
		P265NB
		P310NB
		P310NB Mod
		P355NB
Alloyed Steel for Pressure Purposes at Elevated Temperatures	EN 10028-2:2017	16Mo3
Hot Rolled Steels for Manufacturing of Line Pipes for European Onshore Natural Gas Transmission	EN ISO 3183:2012 Annex M	L245ME
		L245NE
		L290ME
		L290NE
		L360ME
		L360NE
		L415ME
		L415NE
		L450ME
		L485ME
High Strength Structural Steel for Casing	ERDEMİR	9500

PROPERTIES	STANDARD	GRADE
Alloy Structural Steel Plates	SAE J403-14	1006 / CS Type B
		1008 / CS Type B
		1010
		1012
		10105
		1018
		1020
		1026Mod / 25Mn5
		1030
		1035
	1040	
	1045	
	1050	
	1060	
	1070	
	1080	
	SAE J403-2014	1021 Mod
	ASTM A829-17	1345
	5160	
	Boron Alloyed Steels Suitable For Heat Treatment	EN 10083-3	20MnB5 Mod
ERDEMİR		22MnB5
		26MnB5
		28MnB5
EN 10083-3	30MnB5 Mod	
Defense Industry	ERDEMİR	8416
		8613
Silicon Killed Valve Steel Suitable For Surface Hardening	SAE J403-2014	1018 Mod
Carbon Steel For Strap Production After Cold Rolling And Heat Treatment		28Mn6

Kalınlık / Thickness / Dicke 1,4 mm / 25,04 mm
Genişlik / Width / Breite 700 mm / 2050 mm



Hot Rolled Steels Suitable For Cold Reducing

Warmgewalzte Stähle, die zum Kaltreduzieren geeignet sind

Standard: DIN 1614-1:1986

Chemical Composition [%]									
Corresponding		Erdemir Steel Grade	C max	Mn max.	P max	S max.	Si max	N max.	Al min
Standard	Grade								
DIN 1614-1	St 22	6422	0.08	0.40	0.025	0.025	0.030	0.007	0.020
DIN 1614-1	St 22 Mod	6624	0.08	0.40	0.025	0.025	0.030	0.007	0.020
DIN 1614-1	RRSt 23	6423	0.06	0.35	0.020	0.020	0.030	-	0.020
DIN 1614-1	St 24	6424	0.06	0.30	0.020	0.020	0.030	-	0.020
DIN 1614-1	St 22	6412	0.08	0.40	0.025	0.025	0.030	0.007	0.020
DIN 1614-1	RRSt 23	6413	0.06	0.35	0.020	0.020	0.030	-	0.020

Hot Rolled Low-Carbon Steels For VitReous Enamelling After Cold Reducing

Warmgewalzte Stähle mit niedrigem Kohlenstoffgehalt für die glasartige Emaillierung nach dem Kaltreduzieren

Standard: Erdemir

Chemical Composition [%]										
Corresponding		Erdemir Steel Grade	C max	Mn max.	P max	S max.	Si max	Al min	B ppm	Ti max.
Standard	Grade									
Erdemir-2001	6523	6523	0.05	0.30	0.015	0.015	0.04	0.020	10-60	-
Erdemir-2020	6524	6524	0.05	0.45	0.025	0.015	0.040	0.02 5	-	35
Erdemir-2001	7524	7524	0.01	0.025	0.025	0.030	0.035	-	-	0.15

Hot Rolled Steels for Deep-drawing and Cold Forming

Warmgewalzte Stähle zum Tiefziehen und Kaltumformen

Standard: EN 10111:2008

Chemical Composition [%]									
Corresponding		Erdemir Steel Grade	C max	Mn max.	P max	S max.	Si max	N max.	Ti min
Standard	Grade								
EN 10111	DD11	3222	-	0.12	0.60	0.045	0.045	-	0.020
EN 10111	DD11	4222	-	0.12	0.60	0.045	0.045	-	0.020
EN 10111	DD11	6222	-	0.11	0.50	0.035	0.035	-	0.020
EN 10111	DD11	6282	- 0.12	0.60	0.045	0.045	-	-	0.020
EN 10111	DD11	7222	-	0.12	0.60	0.045	0.045	-	0.020
EN 10111	DD12	6223	Fully killed	0.09	0.40	0.030	0.030	-	0.020
EN 10111	DD13	6224	Fully killed	0.07	0.35	0.025	0.025	-	-
EN 10111	DD14	7224	Fully killed	0.08	0.35	0.025	0.025	0.01	-

Mechanical Properties

Corresponding		Erdemir Steel Grade	R_b N/mm ² (kg/mm ²)		R_m N/mm ² (kg/mm ²)	A (%)			Guarantee Period
Standard	Grade		1.5 ≤ d < 2	2 ≤ d ≤ 11		A80		A5	
						max.	1.5 ≤ d < 2 min.	2 ≤ d < 3 min.	3 ≤ d ≤ 11
EN 10111	DD11	3222	170 - 360(17.3-36.7)	170 - 340 (17.3-34.7)	440 (44.9)	23	24	28	-
EN 10111	DD11	4222	170 - 360(17.3-36.7)	170 - 340 (17.3-34.7)	440 (44.9)	23	24	28	-
EN 10111	DD11	6222	170 - 360(17.3-36.7)	170 - 340 (17.3-34.7)	440 (44.9)	23	24	28	-
EN 10111	DD11	6282	170 - 360(17.3-36.7)	170 - 340 (17.3-34.7)	440 (44.9)	23	24	28	-
EN 10111	DD11	7222	170 - 360(17.3-36.7)	170 - 340 (17.3-34.7)	440 (44.9)	23	24	28	-
EN 10111	DD12	6223	170 - 340(17.3-34.7)	170 - 320(17.3-32.6)	420(42.8)	25	26	30	6 month
EN 10111	DD13	6224	170 - 330(17.3-33.7)	170 - 310(17.3-31.6)	400(40.8)	28	29	33	6 month
EN 10111	DD14	7224	170 - 310(17.3-31.6)	170 - 290(17.3-29.6)	380(38.8)	31	32	36	6 month

Low Carbon Hot Rolled Steels for Cold Forming

Warmgewalzte Stähle mit niedrigem Kohlenstoffgehalt für die Kaltumformung

Standart: VALEO 400.040.101

Chemical Composition [%]

Corresponding		Erdemir Steel Grade	C max	Mn	P max	S max.
Standard	Grade					
400.040.101	VAW HRC1/HRC3	713	0.02-0.08	0.15 - 0.50	0.030	0.030

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/ mm ² (kg/ mm ²) min.	Rm N/mm ² (kg/mm ²)	Elongation (%)			
Standard	Grade				A80			A5
		1.2≤t<1.5	1.5≤t<2.0	2.0≤t<3.0	Lo= 5.65√So 3≤t≤6			
				min.	min.	min.	min.	
400.040.101	VAW HRC1/HRC3	713	170(17.3)	270 - 400 (27.6-40.7)	27	28	29	33

Hot Rolled Steels for Deep-drawing and Cold Forming

Warmgewalzte Stähle zum Tiefziehen und Kaltumformen

Standart: VALEO 400.240.003.C

Chemical Composition [%]

Corresponding		Erdemir Steel Grade	C max	Mn	P max	S max.	Si max	Al max
Standard	Grade							
400.240.003.C	DD13	712	0.10	0.15 - 0.60	0.025	0.025	0.40	0.015

Mechanical Properties

Corresponding		ERDEMİR Steel Grade	R _{p0.2} N/mm ² [kg/mm ²]		R _m N/mm ² [kg/mm ²]	Elongation (%) t (thickness, mm)	
Standard	Grade		1.5≤t≤2	2<t≤5		max.	A80 1.5<t<3
						min.	min.
400.240.003.C	DD13		170 - 330 (17.4 - 33.6)	170 - 310 (17.4 - 31.6)	400 (40.7)	29	33

Hot Rolled Structural Steels For Automotive Industry

Warmgewalzte Konstruktionsstähle für die Automotive Industrie

Standart: VALEO 400.240.004.D

Chemical Composition [%]

Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si max.
Standard	Grade						
400.240.004.D	18Mn5	721	0.15-0.20	1.20-1.50	0.025	0.025	0.40

Mechanical Properties

Corresponding		Erdemir Steel Grade	Rp0.2 N/mm ² [kg/mm ²]	Rm N/mm ² [kg/mm ²]	Elongation	
Standard	Grade				Grade	t<3	t≥3
				A80		A5
400.240.004.D	18Mn5	721	min.		min.	
			355 (36.2)	470 - 620 (48.0 - 63.2)	20	

Unalloyed Carbon Steels with Intermediate- Strength for Pipe and Tube Production

Unlegierte Kohlenstoffstähle mit mittlerer Festigkeit für die Herstellung von Rohren

Standard: Miscellaneous

Chemical Composition (%)												
Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si	Cu max.	Ni max.	Cr max.	Mo max.	V max.
Standard	Grade											
Erdemir - 2001	2008	2008	0.06-0.12	0.35-0.60	0.025	0.020	0.15-0.30	0.15	0.15	0.12	0.05	0.02
ASTM A53	A	2009	0.25 max.	0.95 max.	0.050	0.045	-	0.40	0.40	0.40	0.15	0.08
ASTM A53	A	4009	0.25 max.	0.95 max.	0.050	0.045	-	0.40	0.40	0.40	0.15	0.08
ASTM A500	B	6040	0.26 max.	1.35 max.	0.035	0.035	-	-	-	-	-	-
ASTM A500	C	6042	0.23 max.	1.35 max.	0.035	0.035	-	-	-	-	-	-

Mechanical Properties					
Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²) min.	Rm N/mm ² (kg/mm ²) min.	A50 (%) min.
Standard	Grade				
Erdemir - 2001	2008	2008	205 [20.9]	330 [33.7]	31
ASTM A53	A	2009	205 [20.9]	330 [33.7]	
ASTM A53	A	4009	205 [20.9]	330 [33.7]	
ASTM A500	B	6040	315 [32.2]	400 [40.8]	23
ASTM A500	C	6042	345 [35.2]	425 [43.4]	21

Hot Rolled Unalloyed Structural Steels

Warmgewalzte unlegierte Baustähle

Standard: EN 10025-2:2004

Chemical Composition (%)														
Corresponding		Erdemir Steel Grade	C d(thickness, mm)			Mn max.	P max.	S max.	Si max.	Cu max.	N max.	CE(IIW) max. (%) d (mm)		
Standard	Grade		≤16 max.	16<d≤40 max.	40<d≤100 max.							≤30	30<d≤40	40<d≤100
EN 10025-2	S235JR+AR	3237	0.17	0.17	0.20	140	0.035	0.035	0.40	0.55	0.012	0.35	0.35	0.38
EN 10025-2	S235JR+AR	3137	0.17	0.17	0.20	140	0.035	0.035	0.40	0.55	0.012	0.35	0.35	0.38
EN 10025-2	S235JR+AR CTB (Cu)	3281	0.17	0.17	0.20	140	0.035	0.035	0.14-0.25	0.55	0.012	0.35	0.35	0.38
EN 10025-2	S235JR+AR CTA	4237	0.17	0.17	0.20	1.20	0.025	0.035	0.03	0.55	0.012	0.35	0.35	0.38
EN 10025-2	S235JR+AR Özel CTA	4238	0.050-0.095	-	-	0.30-0.45	0.015	0.025	0.05	0.55	0.012	0.35	-	-
EN 10025-2	S235JR+AR Özel	4260	0.17	-	-	1.20	0.025	0.035	0.03	0.55	0.012	0.35	-	-
EN 10025-2	S235JR+AR CTA	4437	0.17	-	-	140	0.035	0.035	0.03	0.55	0.012	0.35	0.35	0.38
EN 10025-2	S235JR+AR CTB	5437	0.17	0.17	0.20	140	0.035	0.035	0.14-0.25	0.55	0.012	0.35	0.35	0.38
EN 10025-2	S235J2 CTB	6237	0.17	0.17	0.17	140	0.025	0.025	0.14-0.25	0.55	-	0.35	0.35	0.38
EN 10025-2	S275JR+AR	3244	0.17	0.17	-	140	0.025	0.025	0.03	0.55	-	0.35	-	-
EN 10025-2	S275JR+AR CTA	4244	0.21	0.21	0.22	1.50	0.030	0.030	0.40	0.55	0.012	0.40	0.40	0.42
EN 10025-2	S275J2 CTB	6244	0.20	0.21	0.22	140	0.025	0.025	0.03	0.55	0.012	0.40	0.40	0.42
EN 10025-2	S355JR+AR	3252	0.18	0.18	0.18	1.50	0.025	0.025	0.14-0.25	0.55	-	0.40	0.40	0.42
EN 10025-2	S355JR+AR CTA	4250	0.18	0.18	-	1.50	0.025	0.025	0.03	0.55	-	0.40	-	-
EN 10025-2	S355J0+AR	5252	0.24	0.24	0.24	1.60	0.035	0.035	0.55	0.55	0.012	0.45	0.47	0.47
EN 10025-2	S355J2	6252	0.24	0.24	0.24	1.60	0.030	0.035	0.03	0.55	0.012	0.45	-	-
EN 10025-2	S355J2 CTA	4252	0.20	0.20	0.22	1.60	0.030	0.030	0.55	0.55	0.012	0.45	0.47	0.47
EN 10025-2	S355J2 Özel CTA	4255	0.20	-	-	1.60	0.025	0.025	0.03	0.55	-	0.45	0.47	0.47
EN 10025-2	S355J2 Özel	6258	0.15	-	-	1.60	0.025	0.025	0.03	0.15	-	0.40	-	-
EN 10025-2	S355J2 (Cu)	6284	0.20	0.20	0.22	1.60	0.025	0.025	0.55	0.55	-	0.45	0.47	0.47
EN 10025-2	S355J2 Mod	6258	0.18-0.22	0.18-0.22	-	140-160	0.025	0.025	0.40-0.55	0.55	-	0.55	-	-
EN 10025-2	S355J2	6284	0.20	0.20	0.22	1.60	0.025	0.025	0.55	0.55	-	0.45	0.47	0.47
EN 10025-2	S355K2+N	7252	0.20	0.20	0.22	1.60	0.025	0.025	0.55	0.55	-	0.45	0.47	0.47

Mechanical Properties

Corresponding		Erdemir Steel Grade	R _e (min) N/mm ² (kg/mm ²) d(thickness, mm)					R _m N/mm ² (kg/mm ²) d(thickness, mm)		A (%) min. d(thickness, mm)						Impact (long.)		
										A80			A5			Temp. °C	KVC J (min.)	
Standard	Grade		≤ 16	> 16 ≤ 40	> 40 ≤ 63	> 63 ≤ 80	> 80 ≤ 100	< 3	≥ 3 ≤ 100	>1 ≤1.5	>1.5 ≤ 2	> 2 ≤ 2.5	>2.5 <3	≥ 3 ≤ 40	>40 ≤ 63			>63 ≤100
EN 10025-2	S235JR	3237	235 (24.0)	225 (23.0)	215 (21.9)	215 (21.9)	215 (21.9)	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	23	22	+20	27
EN 10025-2	S235JR	3137	235 (24.0)	-	-	-	-	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	-	-	+20	27
EN 10025-2	S235JR	3281	235 (24.0)	225 (23.0)	-	-	-	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	-	-	+20	27
EN 10025-2	S235JR	4237	235 (24.0)	225 (23.0)	-	-	-	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	-	-	+20	27
EN 10025-2	S235JR	4260	260-360 (26.5-36.7)	-	-	-	-	370 - 460 (37.7-46.9)	370-460 (37.7-46.9)	32	32	32	32	24	-	-	+20	27
EN 10025-2	S235JR	4437	235 (24.0)	-	-	-	-	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	-	-	+20	27
EN 10025-2	S235JR	5437	235 (24.0)	225 (23.0)	215 (21.9)	215 (21.9)	215 (21.9)	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	23	22	+20	27
EN 10025-2	S235J2	6237	235 (24.0)	225 (23.0)	215 (21.9)	215 (21.9)	215 (21.9)	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	23	22	-20	27
EN 10025-2	S235J2/ S235J2+N	4239	235 (24.0)	225 (23.0)	-	-	-	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	-	-	-20	27
EN 10025-2	S275JR	3244	275 (28.1)	265 (27.0)	255 (26.0)	245 (25.0)	235 (24.0)	430-580 (43.9-59.2)	410-560 (41.8-57.1)	14	15	16	17	21	20	19	+20	27
EN 10025-2	S275JR	4244	275 (28.1)	265 (27.0)	-	-	-	430-580 (43.9-59.2)	410-560 (41.8-57.1)	14	15	16	17	21	20	19	+20	27
EN 10025-2	S275J2	6244	275 (28.1)	265 (27.0)	255 (26.0)	245 (25.0)	235 (24.0)	430-580 (43.9-59.2)	410-560 (41.8-57.1)	14	15	16	17	21	20	19	-20	27
EN 10025-2	S275J2	4246	275 (28.1)	265 (27.0)	-	-	-	430-580 (43.9-59.2)	410-560 (41.8-57.1)	14	15	16	17	21	-	-	-20	27
EN 10025-2	S355JR	3252	355 (36.2)	345 (35.2)	335 (34.2)	325 (33.2)	315 (32.2)	510-680 (52.0-69.3)	470-630 (47.9-64.2)	13	14	15	16	20	19	18	+20	27
EN 10025-2	S355JR	4250	355 (36.2)	345 (35.2)	-	-	-	510-680 (52.0-69.3)	470-630 (47.9-64.2)	13	14	15	16	20	-	-	+20	27
EN 10025-2	S355J0	5252	355 (36.2)	345 (35.2)	335 (34.2)	325 (33.2)	315 (32.2)	510-680 (52.0-69.3)	470-630 (48.0-64.2)	13	14	15	16	20	19	18	0	27
EN 10025-2	S355J2	4252	355 (36.2)	-	-	-	-	510-680 (52.0-69.3)	470-630 (47.9-64.2)	13	14	15	16	20	-	-	-20	27
EN 10025-2	S355J2	4255	355 (36.2)	-	-	-	-	510-680 (52.0-69.3)	470-630 (47.9-64.2)	14	14	15	16	20	-	-	-20	27
EN 10025-2	S355J2	6252	355 (36.2)	345 (35.2)	335 (34.2)	325 (33.2)	315 (32.2)	510-680 (52.0-69.3)	470-630 (47.9-64.2)	13	14	15	16	20	19	18	-20	27
EN 10025-2	S355J2 Mod	6258	355 (36.2)	345 (35.2)	-	-	-	510 (52.0)	470 (47.9)	13	14	15	16	20	-	-	-20	27
EN 10025-2	S355J2	6284	355 (36.2)	345 (35.2)	335 (34.2)	325 (33.2)	315 (32.2)	510-680 (52.0-69.3)	470-630 (47.9-64.2)	13	14	15	16	20	19	18	-20	27
EN 10025-2	S355K2+N	7252	355 (36.2)	345 (35.2)	335 (34.2)	325 (33.2)	315 (32.2)	510-680 (52.0-69.3)	470-630 (47.9-64.2)	13	14	15	16	20	19	18	-20	40

Hot Rolled Unalloyed Structural Steels

Warmgewalzte unlegierte Baustähle

Standart : EN 10025-2:2004

Chemical Composition (%)

Corresponding		Erdemir Grade No	C d (thickness, mm)			Mn max.	P max.	S max.	Si max.	Cu max.	N max.	CE(IIW) max. (%)
Standard	Grade		d ≤ 16 max.	16<d≤40 max.	40<d≤60 max.							
EN 10025-2	S355J2+AR Mod	3152	0.24	0.24	0.24	1.60	0.035	0.035	0.55	0.55	0.012	0.43
EN 10025-2	S355J0+AR Mod	5152	0.20	0.20	0.22	1.60	0.030	0.030	0.55	0.55	0.012	0.45
EN 10025-2	S355J0+NMod	5051	0.20	0.20	0.22	1.60	0.030	0.030	0.55	0.55	0.012	0.45
EN 10025-2	S355J2+NMod	6051	0.20	0.20	0.22	1.60	0.025	0.025	0.55	0.55	0.012	0.45
EN 10025-2	S355J2 Mod	9352	0.20	0.20	0.22	1.60	0.025	0.025	0.55	0.55	0.012	0.43

Mechanical Properties

Corresponding		Erdemir Grade No	Re N/mm2 (kg/mm2)			R m N/mm2 (kg/mm2)	A (%) min. d (kalinlık, mm)		Impact (long.)	
Standard	Grade		d≤16 min.	16<d≤40 min.	40<d≤60 min.		A5		Sic.	KVc
						8≤t≤ 40	40<t≤ 60	°C	J (min.)	
EN 10025-2	S355JR+AR Mod	3152	355 (36.2)	345 (35.2)	335 (34.2)	470 - 630 (48.0-64.2)	20	19	+20	27
EN 10025-2	S355J0+AR Mod	5152	355 (36.2)	345 (35.2)	335 (34.2)	470 - 630 (48.0-64.2)	20	19	0	27
EN 10025-2	S355J0+N Özel	5051	355 (36.2)	345 (35.2)	335 (34.2)	470 - 630 (48.0-64.2)	20	19	0	27
EN 10025-2	S355J2+N Özel	6051	355 (36.2)	345 (35.2)	335 (34.2)	470 - 630 (48.0-64.2)	20	19	-20	27
EN 10025-2	S355J2 Özel	9352	355 (36.2)	345 (35.2)	335 (34.2)	470 - 630 (48.0-64.2)	20	19	-20	27

Standart : EN 10025-2:2004

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C d (thickness, mm)			Mn max.	P max.	S max.	Si max.	Cu max.	N max.	CEV(IIW) max. (%) d (thickness, mm)		
Standard	Grade		≤ 16 max.	16<d≤40 max.	40<d≤100 max.							≤ 30	30<d≤40	40<d≤60
EN 10025-2	S355JR+N	3052	0.24	0.24	0.24	1.60	0.035	0.035	0.55	0.55	0.012	0.45	0.47	0.47
EN 10025-2	S355J0+N	5052	0.20	0.20	0.22	1.60	0.030	0.030	0.55	0.55	0.012	0.45	0.47	0.47

Classes for the suitability for hot-dip zinc coating based on the ladle analysis (for guidance)

Classes	Elementles (%)		
	Si	Si+2.5P	P
Class 1	≤ 0.030	≤ 0.090	-
Class 3	0.14≤ Si ≤0.25	-	≤ 0.030

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re (min.) N/mm2 (kg/mm2) d (thickness, mm)					Rm N/mm2(kg/mm2) d (thickness, mm)		A (%) (min.) d (thickness, mm)						Impact (Long)		
Standard	Grade		≤16	>16 ≤40	>40 ≤63	>63 ≤ 80	>80 ≤100	<3	≥3 ≤100	A80			A5			Temp. °C	KVc min. J	
									>1 ≤1.5	>1.5 ≤ 2	>2 ≤2.5	>2.5 ≤3	≥3 ≤40	>40 ≤63	>63 ≤100			
EN 10025-2	S355JR+N	3052	355 (36.2)	345 (35.2)	335 (34.2)	325 (33.2)	315 (32.2)	510-680 (52.0-69.3)	470-630 (47.9-64.2)	13	14	15	16	20	19	18	+20	27
EN 10025-2	S355J0+N	5052	355 (36.2)	345 (35.2)	335 (34.2)	325 (33.2)	315 (32.2)	510-680 (52.0-69.3)	470-630 (48.0-64.2)	13	14	15	16	20	19	18	0	27

Hot Rolled Unalloyed Structural Steels

Warmgewalzte unlegierte Baustähle

Standart : EN 10025-2:2004

Chemical Composition (%)

Corresponding		ERDEMİR Grade No	C max.	Mn max.	P max.	S max.	Si max.	Cu max.	N max.	CE(IIW) max. (%)
Standard	Grade									
EN 10025-2	S235JR Mod	3235	0.17	140	0.035	0.035	0.40	0.55	0.012	0.35
EN 10025-2	S235JR Mod	4238	0.06-0.17	120	0.025	0.025	0.03	0.55	0.012	0.35
EN 10025-2	S275JR Mod	3243	0.14-0.20	1.00 - 1.35	0.025	0.025	0.15 - 0.25	0.55	0.012	-

Mechanical Properties

Corresponding		Erdemir Grade No	Re min. N/mm ² (kg/mm ²) (thickness, m)		Rm N/mm ² (kg/mm ²) (thickness, mm)		A (%) min. d(thickness, mm)					Impact (Long.)	
Standard	Grade		≤16	>16 ≤40	<3	≥3 ≤25	A80				A5	Stc °C	KVC J[min.]
							>1 ≤1.5	>1.5 ≤2	>2 ≤2.5	>2.5 ≤3	≥3 ≤40		
EN 10025-2	S235JR Mod	3235	235 (24.0)	-	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	+20	27
EN 10025-2	S235JR Mod	4238	235 (24.0)	225 (23.0)	360-510 (36.7-52.0)	360-510 (36.7-52.0)	16	17	18	19	24	+20	27

Hot Rolled Weldable Fine Grain Structural Steels in Normalized Condition

Warmgewalzte schweißbare Feinkornbaustähle im normalgeglühten Zustand

Standard: EN 10025-3:2004

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn	P max.	S max.	Al (min.)	Cr max.	Cu max.	Mo max.	Nb max.	Ni max.	Ti max.	V max.	N max.	CE(IIW) max. (%)
Standard	Grade																
EN 10025-3	S355N	9355	0.20	0.50	0.90-1.65	0.030	0.025	0.02	0.30	0.55	0.10	0.05	0.50	0.05	0.12	0.015	0.43
EN 10025-3	S355NL	9356	0.18	0.50	0.90-1.65	0.025	0.020	0.02	0.30	0.55	0.10	0.05	0.50	0.05	0.12	0.015	0.43
EN 10025-3	S420N	9420	0.20	0.60	1.00-1.70	0.030	0.025	0.02	0.30	0.55	0.10	0.05	0.80	0.05	0.20	0.025	0.48
EN 10025-3	S460N	9460	0.20	0.60	1.00-1.70	0.030	0.025	0.02	0.30	0.55	0.10	0.05	0.80	0.05	0.20	0.025	0.53

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²)			Rm N/mm ² (kg/mm ²)	A5 (%) min.	Impact (Long.)		Bend (Trans, 180°) mrb (d: thickness)
Standard	Grade		d≤16 min.	16<d≤40 min.	40<d≤60 min.			Temp. °C	KVc min. J	
EN 10025-3	S355N	9355	355 (36.2)	345 (35.2)	335 (34.2)	470 - 630 (47.9 - 64.3)	22	-20	40	2 d
EN 10025-3	S355NL	9356	355 (36.2)	345 (35.2)	335 (34.2)	470 - 630 (47.9 - 64.3)	22	-50	27	2 d
EN 10025-3	S420N	9420	420 (42.9)	400 (40.8)	-	520 - 680 (53.0 - 69.3)	19	-20	40	4 d
EN 10025-3	S460N	9460	460 (46.9)	440 (44.9)	-	540 - 720 (55.1 - 73.4)	17	-20	40	4 d

Wheel Steels With Low Strength

Radstähle mit geringer Festigkeit

Standard: EN 10111:2008

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Al min.	Nb max.	Cu max.	Sn max.	Pb max.	Zn max.	Ni max.	Cr max.
Standard	Grade														
EN 10111	DD13Mod	3923	0.10	0.45	0.035	0.030	0.30	0.020	0.004	0.20	0.03	0.01	0.02	0.10	0.10

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²) min.	Rm N/mm ² (kg/mm ²)	A (%) min.		Hardness HRB max
Standard	Grade				A80 t<3 mm	A5 t≥3 mm	
EN 10111	DD13 Mod	3923	210 (214)	300 - 410 (30.6 - 41.8)	38	38	66

Hot Rolled High Yield Strength Steels for Cold Forming

Warmgewalzte Stähle mit hoher Streckgrenze für die Kaltumformung

Standard : EN 10149-2:2013

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Al min.	Nb max.	Ti max.	V max.	Mo max.	B max.
Standard	Grade												
EN 10149-2	S315MC	4932	0.12	1.30	0.025	0.020	0.50	0.020	0.09	0.15	0.20	-	-
EN 10149-2	S355MC	4936	0.12	1.50	0.025	0.020	0.50	0.020	0.09	0.15	0.20	-	-
EN 10149-2	S420MC	4942	0.12	1.60	0.025	0.015	0.50	0.020	0.09	0.15	0.20	-	-
EN 10149-3	S420MC (CT A)	4943	0.12	1.60	0.024	0.015	0.30	0.020	0.09	0.15	0.20	-	-
EN 10149-2	S460MC	4946	0.12	1.60	0.025	0.015	0.50	0.015	0.09	0.15	0.20	-	-
EN 10149-3	S460MC (CT A)	4947	0.12	1.60	0.024	0.015	0.30	0.015	0.09	0.15	0.20	-	-
EN 10149-2	S500MC	4950	0.12	1.70	0.025	0.015	0.50	0.015	0.09	0.15	0.20	-	-
EN 10149-2	S550MC	4955	0.12	1.80	0.025	0.015	0.50	0.015	0.09	0.15	0.20	-	-
EN 10149-2	S600MC	4960	0.12	1.90	0.025	0.015	0.50	0.015	0.09	0.22	0.20	0.50	0.005
EN 10149-2	S650MC	4965	0.12	2.00	0.025	0.015	0.60	0.015	0.09	0.22	0.20	0.50	0.005
EN 10149-2	S700MC	4970	0.12	2.10	0.025	0.015	0.60	0.015	0.09	0.22	0.20	0.50	0.005

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm2(kg/mm2) min.	R m N/mm2(kg/mm2)	A (%)		Impact KVc (Long.) Temp. = -20°C min.	Bend (Trans. 180°) mdb (d: thickness)
Standard	Grade				d<3 A80 min.	d≥3 A5 min.		
EN 10149-2	S315MC	4932	315 (32.1)	390 - 510 (39.8 - 52.0)	20	24	40 J	0
EN 10149-2	S355MC	4936	355 (36.2)	430 - 550 (43.9 - 56.1)	19	23	40 J	0.5 d
EN 10149-2	S420MC	4942	420 (42.9)	480 - 620 (49.0 - 63.2)	16	19	40 J	0.5 d
EN 10149-2	S420MC (CT A)	4943	420 (42.9)	480 - 620 (49.0 - 63.2)	16	19	40 J	0.5 d
EN 10149-2	S460MC	4946	460 (46.9)	520 - 670 (53.1 - 68.4)	14	17	40 J	1 d
EN 10149-2	S460MC (CT A)	4947	460 (46.9)	520 - 670 (53.1 - 68.4)	14	17	40 J	1 d
EN 10149-2	S500MC	4950	500 (51.1)	550 - 700 (56.1 - 71.4)	12	14	40 J	1 d
EN 10149-2	S550MC	4955	550 (56.1)	600 - 760 (61.20 - 77.5)	12	14	40 J	1.5 d
EN 10149-2	S600MC	4960	600 (61.2)	650 - 820 (66.3 - 83.6)	11	13	40 J	1.5 d
EN 10149-2	S650MC	4965	650 (66.3)	700 - 880 (71.4 - 89.7)	10	12	40 J	2.0 d
EN 10149-2	S700MC	4970	700 (71.4)	750 - 950 (76.5 - 96.9)	10	12	40 J	2.0 d

Hot Rolled High Yield Strength Steels Suitable For Cold Forming Based On Customer Specification

Warmgewalzte Stähle mit hoher Streckgrenze, geeignet für die Kaltumformung nach Kundenspezifikation

Standart : EN 10149-2:2013

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Mn	P max.	S max.	Si max.	Al	Nb max.	Ti max.	V max.	Mo max.	B max.	Cu max.	Cr max.	Ni max.	N max.	Ca	Ce q max.
Standard	Grade																		
EN 10149-2	S460MC	846	0.12	1.00 - 1.60	0.025	0.010	0.30	0.015-0.060	0.060	0.030	0.030	0.030	0.001	0.12	0.20	0.10	0.009	0.002-0.006	0.36

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm2 (kg/mm2) min.	R m N/mm2 (kg/mm2) min.	Elongation (%)		Impact (Long)		Hardness HV10 max.	Bending (Trans) kmç: 180° d:thickness
Standard	Grade				A80 (%) min. t < 3	A5 (%) min. t ≥ 3	Temp. °C	KVC J (min.)		
EN 10149-2	S460MC	846	470 (47.9)	520-720 (53.1-73.4)	14	17	-20	40	275	2 d

Medium, Low Strength Steels for Automotive Industry, Mostly for Wheel Rims

Mittel- und niedrigfeste Stähle für die Automobilindustrie, vor allem für Radfelgen

Standard : EN 10025-2:2004

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C d (thickness, mm)		Mn max.	P max.	S max.	Si	Cu max.	N max.	CEV (IIW) max. (%) d (thickness, mm) ≤ 25
Standard	Grade		≤ 16 max.	16<d≤25 max.							
Erdemir-2001	S235J2	3936	0.17	0.17	1.40	0.025	0.025	-	0.55	-	0.35
Erdemir-2001	S275JRC	3944	0.21	0.21	1.50	0.035	0.035	-	0.55	0.012	0.40
Erdemir-2001	S275J2	3945	0.18	0.18	1.50	0.025	0.025	-	0.55	-	0.40

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²)		Rm N/mm ² (kg/mm ²)		A (% min.) d (thickness, mm)				Impact Long.	
Standard	Grade		d≤16 min.	16<d≤25 min.	d<3	3≤d≤25	>1 ≤1.5	>1.5 ≤2	>2 ≤2.5	≥3 ≤40	Temp. °C	Kvc min. J
		EN 10025-2	S235J2	3936	235 [24.0]	225 [23.0]	360 - 510 [36.7 - 52.0]	360 - 510 [36.7 - 52.0]	16	17			18	24	-20	27
EN 10025-2	S275JRC	3944	275 [28.1]	265 [27.0]	430 - 580 [43.9 - 59.2]	410 - 560 [41.8 - 57.1]	14	15	16	21	+20	27
EN 10025-2	S275J2	3945	275 [28.1]	265 [27.0]	430 - 580 [43.9 - 59.2]	410 - 560 [41.8 - 57.1]	14	15	16	21	-20	27

Bend (transverse, 180°, mrb)

Corresponding		Erdemir Steel Grade	d (thickness, mm)											
Standard	Grade		>1 ≤1.5	> 1.5 ≤2.5	>2.5 ≤3	>3 ≤4	>4 ≤5	>5 ≤6	>6 ≤7	>7 ≤8	>8 ≤10	>10 ≤12	>12 ≤14	>14 ≤16
EN 10025-2	S235JRC	3944	2	3	4	5	8	10	12	16	20	25	28	32

High, Medium Strength Steels for Automotive Industry, Mostly for Discs

Hoch- und mittelfeste Stähle für die Automobilindustrie, vor allem für Scheiben

Standard: EN 10025-2:2004

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C d (thickness, mm)		Mn max.	P max.	S max.	Si	Cu max.	N max.	CE (IIW) d (thickness, mm) ≤ 25 max. (%)
Standard	Grade		≤ 16 max.	16<d≤25 max.							
EN 10025-2	S235JRC	3937	0.17	0.17	1.40	0.035	0.035	-	0.55	0.012	0.35
EN 10025-2	S275JRC Mod	3938	0.21	-	1.50	0.035	0.035	0.05-0.17	0.55	0.012	0.43

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²)		Rm N/mm ² (kg/mm ²)		A (% min.) d (thickness, mm)				Impact Long.		
Standard	Grade		d≤16 min.	16<d≤25 min.	d<3	3≤d≤25	>1 ≤1.5	>1.5 ≤2	>2 ≤2.5	>2.5 <3	≥3 ≤40	Temp. °C	Kvc min. J
		EN 10025-2	S235JRC	3937	235 [24.0]	225 [23.0]	360 - 510 [36.7 - 52.0]	360 - 510 [36.7 - 52.0]	16	17	18			19	24	+20	27
EN 10025-2	S275JRC Mod	3938	300 [30.6]	-	430 - 580 [43.9 - 59.2]	430-570 [43.8-58.2]	14	15	16	17	21	+20	27

Alloyed Steel for Pressure Purposes at Elevated Temperatures

Legierter Stahl für Druckzwecke bei erhöhten Temperaturen

Standard : EN 10028-2:2017

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si max.	N max.	Cr max.	Cu max.	Mo	Ni max.
Standard	Grade											
EN 10028-2	16Mo3	6345	0.12-0.20	0.40-0.90	0.025	0.010	0.35	0.012	0.30	0.30	0.25-0.35	0.30

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²)			Rm N/mm ² (kg/mm ²)	A5 (%) min.	Impact (Trans.)		R p0.2 N/mm ² (kg/mm ²) Temperatur= 300°C		
Standard	Grade		d≤16 min.	16<d≤40 min.	40<d≤60 min.			Temp. °C	Kvc min. J	d≤16 min.	16<d≤40 min.	40<d≤60 min.
		EN 10028-2	16Mo3	6345	275 [28.1]	270 [27.6]	260 [26.5]	440 - 590 [44.9 - 60.2]	22	20	31	194 [19.8]	190 [19.4]	183 [18.7]

Wheel Steels with High Strength

Radstahl mit hoher Festigkeit

Standard : EN 10149-2:2013

Chemical Composition [%]

Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	S max.	Al min.	Nb max.	Ti max.	V max.
Standard	Grade										
EN 10149-2	S355MC	3955	0.12	0.50	1.50	0.025	0.020	0.015	0.09	0.15	0.20

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm2 (kg/mm2) min.	Rm N/mm2 (kg/mm2)	A (%)		Impact (Long.)		Bend (Trans., 180°) mdb (d: thickness)
Standard	Grade				d<3 A80 min.	d≥3 A5 min.	Temp. °C	KVc min. J	
EN 10149-2	S355MC	3955	355 (36.2)	430 - 550 (43.9 - 56.1)	19	23	-20	40	0.5 d

Hot Rolled Steel For Welded Gas Cylinders (LPG Tubes)

Warmgewalzter Stahl für geschweißte Gasflaschen (LPG-Rohre)

Standard :EN 10120:2008

Chemical Composition [%]

Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn min.	P max.	S max.	Al min.	N max.	Nb max.	Ti max.
Standard	Grade										
EN 10120	P245NB	6837	0.16	0.25	0.30	0.025	0.015	0.020	0.009	0.050	0.03
EN 10120	P265NB	6842	0.19	0.25	0.40	0.025	0.015	0.020	0.009	0.050	0.03
EN 10120	P310NB	6847	0.20	0.50	0.70	0.025	0.015	0.020	0.009	0.050	0.03
EN 10120	P310NB Mod	6848	0.20	0.50	0.70	0.025	0.015	0.020	0.009	0.050	0.03
EN 10120	P355NB	6852	0.20	0.50	0.70	0.025	0.015	0.020	0.009	0.050	0.03

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm2 (kg/mm2) min.	Rm N/mm2 (kg/mm2)	A (%)	
Standard	Grade				d<3 A80 min.	≥d≥5 A5 min.
EN 10120	P245NB	6837	245 (25.0)	360 - 450 (36.7 - 45.9)	26	34
EN 10120	P265NB	6842	265 (27.0)	410 - 500 (41.8 - 51.0)	24	32
EN 10120	P310NB	6847	310 (31.6)	460 - 550 (46.9 - 56.1)	21	28
EN 10120	P310NB MOD	6848	310 (31.6)	460 - 550 (46.9 - 56.1)	21	-
EN 10120	P355NB	6852	355 (36.2)	510 - 620 (52.0 - 63.2)	19	24

Steel Suitable For Usage Under Low Pressure

Stahl geeignet für den Einsatz unter niedrigem Druck

Standard: EN 10207:2005

Chemical Composition [%]

Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn	P max.	S max.	Al min.
Standard	Grade							
EN 10207	P275SL	6340	0.16	0.40	0.50-1.50	0.025	0.020	0.020

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm2(kg/mm2)			Rm N/mm2 (kg/mm2)	A80 (%)		A5 (%)	Impact (Long.)		Rp0.2 N/mm2 (kg/mm2)
Standard	Grade		d≤16 min.	16<d≤40 min.	40<d≤60 min.		2<d≤2.5 min.	2.5<d<3 min.	3≤d≤60 min.	Temp. °C	KVc min. J	Temp = 300°C d≤60 min.
EN 10207	P275SL	6340	275 (28.1)	265 (27.0)	255 (26.0)	390 - 510 (39.8 - 52.0)	17	18	22	-50	28	132 (13.5)

Carbon Steel with Intermediate Tensile Strength for Pressure Vessels

Kohlenstoffstahl mit mittlerer Zugfestigkeit für Druckgefäße

Standard : ASTM A285-2017

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Mn max.	P max.	S max.
Standard	Grade					
ASTM A285	C	6838	0.28	0.90	0.025	0.025

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²) min.	R m N/mm ² (kg/mm ²)	A (%)	
Standard	Grade				A50 min.	A200 min.
ASTM A285	C	6838	205 [20.9]	380-515 [38.8-52.5]	27	23

Steel For Pressure Vessels

Stahl für Druckgefäße

Standard : LR-2-2008 (Lloyd's Register of Shipping)

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Si	Mn	P max.	S max.	Al min.	Cr max.	Cu max.	Mo max.	Ni max.
Standard	Grade											
LR - P2	490FG	6850	0.20	0.10-0.50	0.90-1.60	0.035	0.035	0.018	0.25	0.30	0.10	0.30

Mechanical Properties

Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²)		R m N/mm ² (kg/mm ²)	A5 (%) min.	Rp0.2 N/mm ² (kg/mm ²)Temp. =300°C min.
Standard	Grade		3<d≤40	40<d≤50			
			min.	min.			
LR-P2	490FG	6850	315 [32.1]	305 [31.1]	490-610 [50.0-62.2]	21	192 [19.6]

Hot Rolled Carbon Steels for Pressure Purposes at Moderate and Lower Temperature Services

Warmgewalzte Kohlenstoffstähle für Druckzwecke bei mäßigen und niedrigen Temperaturen

Standard : ASTM A516-17

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C			Mn		P max.	S max.	Si	Cu max.	Ni max.	Cr max.	Mo max.	V max.	Nb max.	Ti max.
Standard	Grade		d≤12.5 max.	12.5<d≤50 max.	50<d≤100 max.	d≤12.5 max.	d>12.5 max.										
ASTM A516	55	6855	0.18	0.20	0.22	0.60-0.90	0.60-1.20	0.025	0.025	0.15-0.40	0.40	0.40	0.30	0.12	0.03	0.02	0.03
ASTM A516	60	6860	0.21	0.23	0.25	0.60-0.90	0.85-1.20	0.025	0.025	0.15-0.40	0.40	0.40	0.30	0.12	0.03	0.02	0.03
ASTM A516	65	6865	0.24	0.26	0.28	0.85-1.20	0.85-1.20	0.025	0.025	0.15-0.40	0.40	0.40	0.30	0.12	0.03	0.02	0.03
ASTM A516	70	6870	0.27	0.28	0.30	0.85-1.20	0.85-1.20	0.025	0.025	0.15-0.40	0.40	0.40	0.30	0.12	0.03	0.02	0.03

Mechanical Properties

Corresponding		Erdemir Steel Grade	R _s N/mm ² (kg/mm ²) min.	R _m N/mm ² (kg/mm ²)	A (%)	
Standard	Grade				A50 min.	A200 min.
ASTM A516	55	6855	205 [20.9]	380-515 [38.8-52.6]	27	23
ASTM A516	60	6860	220 [22.4]	415-550 [42.3-56.1]	25	21
ASTM A516	65	6865	240 [24.5]	450-585 [45.9-59.7]	23	19
ASTM A516	70	6870	260 [26.5]	485-620 [49.5-63.3]	21	17

Impact (Longitudinal)[2]

Grade	Erdemir Steel Grade	Temp. (°C)	KVc (J) Min.	Temp. (°C)	KVc (J) Min.	Temp. (°C)	KVc (J) Min.
		d(mm) ≤ 25		25< d(mm) ≤ 50		50< d(mm) ≤ 60	
55	6855	-51	18	-51	18	-46	18
60	6860	-51	18	-46	18	-46	18
65	6865	-51	18	-46	18	-40	18
70	6870	-46	20	-40	20	-35	20

Hot Rolled Steels for Pipe Production

Warmgewalzte Stähle für die Rohrherstellung

Standard : Erdemir-14

Chemical Composition (%)								
Corresponding		Erdemir Steel Grade	C	Si max.	Mn	P max.	S max.	Al min.
Standard	Grade							
Erdemir-14	6350	6350	0.19-0.25	0.18-0.32	1.10-1.60	0.025	0.020	0.020

Mechanical Properties (Intended)					
Corresponding		Erdemir Steel Grade	R _e N/mm ² (kg/mm ²) min.		A5 (%) min.
Standard	Grade		d (mm) ≤ 16		
Erdemir-14	6350	6350	350 [35.7]		20

Normalized Fine Grained Steels Suitable for Pressure Purposes

Normalisierte Feinkornstähle, geeignet für Druckzwecke

Standard: EN 10028-3:2017

Chemical Composition (%)																
Corresponding		Erdemir Steel Grade	C max.	Mn	P max.	S max.	Si max.	Al min.	N max.	Cr max.	Cu max.	Mo max.	Nb max.	Ni max.	Ti max.	V max.
Standard	Grade															
EN 10028-3	P355NH	6353	0.18	1.10-1.70	0.025	0.010	0.50	0.020	0.012	0.30	0.30	0.08	0.050	0.50	0.03	0.10
EN 10028-3	P355NL1	6355	0.18	1.10-1.70	0.025	0.008	0.50	0.020	0.012	0.30	0.30	0.08	0.050	0.50	0.03	0.10
EN 10028-3	P355NH/355NL1	6356	0.18	1.10-1.70	0.025	0.008	0.50	0.020	0.012	0.30	0.30	0.08	0.050	0.50	0.03	0.10

Mechanical Properties													
Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²) d (mm)			Rm N/mm ² (kg/mm ²)	A5 (%) min.	Impact (Trans.)		Rp0.2 N/mm ² (kg/mm ²) Temperatur _{Re} = 300°C			
Standard	Grade		d≤16 min.	16<d≤40 min.	40<d≤60 min.			Temp. °C	KVc min. J	d≤16 min.	16<d≤40 min.	40<d≤60 min.	
EN 10028-3	P355NH	6353	355 [36.2]	345 [35.2]	335 [34.2]	490 - 630 [50.0 - 64.3]	22	-20	30	232 [23.7]	225 [22.9]	219 [22.3]	
EN 10028-3	P355NL1	6355	355 [36.2]	345 [35.2]	335 [34.2]	490 - 630 [50.0 - 64.3]	22	-40	27	-	-	-	
EN 10028-3	P355NH/355NL1	6356	355 [36.2]	345 [35.2]	335 [34.2]	490 - 630 [50.0 - 64.3]	22	-40	27	232 [23.7]	225 [22.9]	219 [22.3]	

Steel for Manufacturing of Welded Pipes for Pressure Purposes

Stahl für die Herstellung von geschweißten Rohren für Druckzwecke

Standard: EN 10217-1:2002+A1:2005

Chemical Composition (%)									
Corresponding		Erdemir Steel Grade	C max.	Mn max.	Si max.	P max.	S max.	Cu max.	
Standard	Grade								
EN 10217-1	P235TR1	3285	0.16	1.20	0.35	0.025	0.020	0.30	
EN 10217-1	P235TR1	3337	0.16	1.20	0.040	0.025	0.020	0.12	

Mechanical Properties						
Corresponding		Erdemir Steel Grade	Re N/mm ² (kg/mm ²)		Rm N/mm ² (kg/mm ²)	A5 (%) min.
Standard	Grade		1.50≤d≤16 min.	16.0<d≤40 min.		
EN 10217-1	P235TR1	3285	235 [24.0]	225 [23.0]	360-500 [36.7-50.9]	23
EN 10217-1	P235TR1	3337	235 [24.0]	225 [23.0]	360-500 [36.7-50.9]	23

Unalloyed Steels for Pressure Purposes at Elevated Temperatures

Unlegierte Stähle für Druckzwecke bei erhöhter Temperatur

Standard : EN 10028-3:2017

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Si max.	Mn	P max.	S max.	Al min.	N max.	Cr max.	Cu max.	Mo max.	Nb max.	Ni max.	Ti max.	V max.
Standard	Grade															
EN 10028-2	P235GH	6335	0.16 max.	0.35	0.60-1.20	0.025	0.010	0.020	0.012	0.30	0.30	0.08	0.020	0.30	0.03	0.02
EN 10028-2	P265GH	6341	0.20 max.	0.40	0.80-1.40	0.025	0.010	0.020	0.012	0.30	0.30	0.08	0.020	0.30	0.03	0.02
EN 10028-2	P295GH	6347	0.08 - 0.20	0.40	0.90-1.50	0.025	0.010	0.020	0.012	0.30	0.30	0.08	0.020	0.30	0.03	0.02
EN 10028-2	P355GH	6352	0.10 - 0.22	0.60	1.10-1.70	0.025	0.010	0.020	0.012	0.30	0.30	0.08	0.040	0.30	0.03	0.02

Mechanical Properties

Corresponding		Erdemir Steel Grade	R _e N/mm ² (kg/mm ²)			R _m N/mm ² (kg/mm ²)	A5 (%) min.	Impact] (Trans.)		R _{p0.2} N/mm ² (kg/mm ²) Temp.= 300°C		
Standard	Grade		d≤16 min.	16<d≤40 min.	40<d≤50 min.			Temp. °C	KV _c min. J	d≤16 min.	16<d≤40 min.	40<d≤50 min.
EN 10028-2	P235GH	6335	235 [24.0]	225 [22.9]	215 [21.9]	360 - 480 [36.7 - 49.0]	24	-20	27	153 [15.6]	147 [15.0]	140 [14.3]
EN 10028-2	P265GH	6341	265 [27.0]	255 [26.0]	245 [25.0]	410 - 530 [41.8 - 54.1]	22	-20	27	173 [17.6]	166 [16.9]	160 [16.3]
EN 10028-2	P295GH	6347	295 [30.1]	290 [29.6]	285 [29.1]	460 - 580 [46.9 - 59.2]	21	-20	27	192 [19.6]	189 [19.3]	186 [19.0]
EN 10028-2	P355GH	6352	355 [36.2]	345 [35.2]	335 [34.2]	510 - 650 [52.0 - 66.3]	20	-20	27	232 [23.7]	225 [22.9]	219 [22.3]

Silicon Killed Valve Steel Suitable For Surface Hardening

Siliziumberuhigter Ventilstahl, geeignet für Oberflächenhärtung

Standard: SAE J403-2014

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Mn	Al max.	P max.	S max.	Si min.
Standard	Grade							
SAE J403	1018 Mod	3037	0.14-0.21	0.60-0.90	0.009	0.040	0.050	0.10

Mechanical Properties (Intended)

Corresponding		Erdemir Steel Grade	R _m Psi / (N/mm ²) (kg/mm ²)	Sertlik (HRB)
Standard	Grade			
SAE J403	1018 Mod	3037	58000-65000 / (400-448) [40.8-45.7]	65-80

Hot Rolled Carbon Steel For Strap Production After Cold Rolling And Heat Treatment

Warmgewalzter Kohlenstoffstahl für die Bandproduktion nach Kaltwalzen und Wärmebehandlung

Standard : EN 10083-2:2006

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si	Al	N max.
Standard	Grade								
EN 10083-2	28Mn6	3031	0.26-0.32	1.30-1.60	0.030	0.020	0.25-0.40	0.020-0.080	0.010

Steel for Manufacturing of Welded Pipes for Pressure Purposes

Stahl für die Herstellung von geschweißten Rohren für Druckzwecke

Standard: EN 10217-1:2002+A1:2005

Mechanical Properties

Corresponding			Erdemir Steel Grade	Rt0.5 N/mm2 kg/mm2	Rm N/mm2 kg/mm2	Rt0.5/Rm max.	A5 (%) min.	Impact (0°C) KvC (Joule)		Bend Test (mdb) d : thickness
Standard	Specification Level	Grade						min.single	min. average	
EN ISO 3183	PSL2	L245ME	9245	245-440 [25.0-44.8]	415-760 [42.3-77.5]	0.85	22	30	40	3d
EN ISO 3183	PSL2	L245NE	9246	245-440 [25.0-44.8]	415-760 [42.3-77.5]	0.80	22	30	40	3d
EN ISO 3183	PSL2	L290ME	9290	290-440 [29.6-44.8]	415-760 [42.3-77.5]	0.85	21	31	42	3d
EN ISO 3183	PSL2	L290NE	9291	290-440 [29.6-44.8]	415-760 [42.3-77.5]	0.85	21	31	42	3d
EN ISO 3183	PSL2	L360ME	9360	360-510 [36.7-52.0]	460-760 [46.9-77.5]	0.85	20	31	42	4d
EN ISO 3183	PSL2	L360NE	9361	360-510 [36.7-52.0]	460-760 [46.9-77.5]	0.85	20	31	42	4d
EN ISO 3183	PSL2	L415ME	9415	415-565 [42.3-57.6]	520-760 [53.0-77.5]	0.85	18	31	42	5d
EN ISO 3183	PSL2	L415NE	9416	415-565 [42.3-57.6]	520-760 [53.0-77.5]	0.85	18	31	42	5d
EN ISO 3183	PSL2	L450ME	9450	450-570 [45.9-58.1]	535-760 [54.5-77.5]	0.87	18	35	47	6d
EN ISO 3183	PSL2	L485ME	9485	485-605 [49.5-61.7]	570-760 [58.1-77.5]	0.90	18	46	63	6d

Hot Rolled High Strength Structural Steel for Casing

Warmgewalzter hochfester Baustahl für Futterrohre

Standard: Erdemir

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn	P max.	S max.	Al min.	Cr max.	Cu max.	Mo max.	Nb max.	Ni max.	Ti max.
Standard	Grade													
Erdemir-2005	9500	9500	0.16	0.50	1.50-2.00	0.020	0.010	0.02	0.20	0.20	0.25	0.10	0.30	0.05

Mechanical Properties

Corresponding		Erdemir Steel Grade	R _e N/mm2 (kg/mm2) min.	R _m N/mm2 (kg/mm2) min.	A5 (%) min.	Impact (Long.)		Bend (Trans., 180°) mrb (d: thickness)
Standard	Grade					Temp. °C	KVc J min.	
Erdemir-2005	9500	9500	500 [51.0]	690 [70.4]	18	-20	30	4 d

Alloy Structural Steel Plates

Legierte Baustahlbleche

Standard : Miscellaneous

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si	Cr max.	Mo max.	V max.	Nb max.	Ti max.
Standard	Grade											
SAE J403-14/ASTM A1011-15/ ASTM A1018-18	1006 / CS Type B	6006	0.02 - 0.08	0.45 max.	0.025	0.025	0.04 max.	0.20	0.15	0.006	0.008	0.025
SAE J403-14/ASTM A1011-15/ ASTM A1018-18	1008 / CS Type B	3008	0.02 - 0.10	0.50 max.	0.030	0.035	0.10 max.	0.20	0.15	0.006	0.008	0.025
SAE J403	1010	3010	0.08 - 0.13	0.30 - 0.60	0.030	0.035	0.10 max.	-	-	-	-	-
SAE J403	1012	3012	0.10 - 0.15	0.30 - 0.60	0.030	0.035	0.10 max.	-	-	-	-	-
SAE J403	1015	3015	0.13 - 0.18	0.30 - 0.60	0.030	0.035	0.10 max.	-	-	-	-	-
SAE J403	1018	6018	0.15 - 0.20	0.60 - 0.90	0.030	0.035	0.10 max.	-	-	-	-	-
SAE J403	1020	3020	0.18 - 0.23	0.30 - 0.60	0.030	0.035	0.15 - 0.35	-	-	-	-	-
SAE J403	1026Mod/25Mn5	3026	0.22 - 0.28	1.10 - 1.50	0.025	0.015	0.15 - 0.35	-	-	-	-	-
SAE J403	1030	3030	0.28 - 0.34	0.60 - 0.90	0.030	0.035	0.15 - 0.35	-	-	-	-	-
SAE J403	1035	5035	0.32 - 0.38	0.60 - 0.90	0.030	0.035	0.15 - 0.35	-	-	-	-	-
SAE J403	1040	5040	0.37 - 0.44	0.60 - 0.90	0.030	0.035	0.15 - 0.35	-	-	-	-	-
SAE J403	1045	5045	0.43 - 0.50	0.60 - 0.90	0.030	0.035	0.15 - 0.35	-	-	-	-	-
SAE J403	1050	5050	0.48 - 0.55	0.60 - 0.90	0.030	0.035	0.15 - 0.35	-	-	-	-	-
SAE J403	1060	5060	0.55 - 0.65	0.60 - 0.90	0.030	0.035	0.15 - 0.35	-	-	-	-	-
SAE J403	1070	5070	0.65 - 0.75	0.60 - 0.90	0.030	0.035	0.15 - 0.35	-	-	-	-	-
SAE J403	1080	5080	0.75 - 0.88	0.60 - 0.90	0.030	0.035	0.15 - 0.35	-	-	-	-	-

Mechanical Properties

Corresponding		Erdemir Steel Grade	R _s N/mm2(kg/mm2) min.	A ₅₀ [%] min.	Hardness (HRB) max.
Standard	Grade				
SAE J403-14/ASTM A1011-15/ASTM A1018-18	1006 / CS Type B	6006	205-340 [20.90 - 34.65]	25	75
SAE J403-14/ASTM A1011-15/ASTM A1018-18	1008 / CS Type B	3008	205-340 [20.90 - 34.65]	25	75

Hot Rolled Carbon Structural Steels With Specific Chemical Composition

Warmgewalzte Kohlenstoff-Konstruktionsstähle mit spezifischer chemischer Zusammensetzung

Standard : Miscellaneous

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Mn max.	Si max.	P max.	S max.
Standard	Grade						
SAE J403-2014	1021 Mod	3021	0.18-0.23	1.35	0.04	0.020	0.015

Mechanical Properties

Corresponding		Erdemir Steel Grade	R _s N/mm2(kg/mm2) min.	R _m N/mm2(kg/mm2)	A50 % min.
Standard	Grade				
SAE J403-2014	1021 Mod	3021	310 [31.7]	450-585 [45.88 - 59.62]	28

Alloyed Structural Steel Plates

Legierte Baustahlplatten

Standard : ASTM A829-17

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si	Cr
Standard	Grade							
ASTM A829	1345	5345	0.43 - 0.48	1.60-1.90	0.030	0.040	0.15-0.35	-
ASTM A829	5160	5360	0.56 - 0.64	0.75-1.00	0.030	0.040	0.15-0.35	0.70-0.90

Hot Rolled Boron Alloyed Steels Suitable For Heat Treatment

Legierte Baustahlplatte Warmgewalzte borlegierte Stähle für die Wärmebehandlung

Standard: EN EN 10083-3:2006 / Erdemir

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si max.	Cr	Ti	B
Standard	Grade									
EN 10083-3	20MnB5 Mod	5620	0.17 - 0.23	1.10 - 1.40	0.025	0.035	0.40	0.05 - 0.30	0.015 - 0.060	0.0008-0.0050
Erdemir-15	22MnB5	5622	0.19-0.25	1.10-1.40	0.025	0.015	0.40	0.10-0.30	0.015-0.060	0.0008-0.0050
Erdemir-15	26MnB5	5626	0.23-0.29	1.05-1.40	0.025	0.020	0.18-0.32	0.10-0.20	0.015-0.035	0.0020-0.0045
Erdemir-19	28MnB5	5628	0.26-0.31	1.10 - 1.40	0.020	0.010	0.20-0.35	0.10-0.25	0.03-0.06	0.0020-0.0045
EN 10083-3	30MnB5 Mod	5630	0.27 - 0.33	1.15 - 1.45	0.025	0.035	0.40	0.05 - 0.30	0.015 - 0.060	0.0008-0.0050
EN 10083-3	30MnB5 Mod	5631	0.27 - 0.33	1.15 - 1.45	0.025	0.035	0.40	0.20 - 0.60	0.015 - 0.060	0.0008-0.0050

Hot Rolled Steels for Defense Industry

Warmgewalzte Stähle für die Verteidigungsindustrie

Standard: Erdemir

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si	Al	Cu max.	Cr	Mo	V max.	Ni max.
Standard	Grade												
Erdemir-2004	8416	8416	0.27 - 0.33	0.45-0.65	0.025	0.020	0.55-0.75	0.030 min.	0.35	1.00-1.50	0.40-0.60	0.20-0.30	0.25
Erdemir-2003	8613	8613	0.11-0.15	0.60-0.90	0.025	0.015	0.30-0.50	0.02-0.07	0.20	0.20 max.	-	-	0.60-0.90



PROPERTIES	STANDARD	GRADE
Low Carbon Steels For Drawing and Deep Drawing with Surface Quality Options A and B	EN 10130:2006	DC01
		DC03
		DC04
		DC05
		DC06
Low Carbon Steels For Drawing and Deep Drawing	ASTM A1008-2015	DS Type B
	ERDEMİR	ERDEMİR-DC02
Low Carbon Steels For Deep Drawing	TSG3100G	SPC270C
Ultra Low Carbon Drawing and Deep Drawing Steels For Home Appliances	EN 10130:2006	DC01
		DC03
		DC04
		DC05
		DC06
		DC06
Ultra Low Carbon Extra Deep Drawing Steels For Automotive Industry	EN 10130:2006	DC04
		DC06
Ultra Low Carbon For Deep Drawing Steels Suitable For Automotive Industry	11-04-013	XES
	TSG3100G	SPC270D
Enamelling	EN 10209:2013	DC01EK
		DC04EK
		DC05EK
		DC04ED
		DC04ED Mod
		DC06ED
High Yield Strength Steels For Cold Forming	EN 10268:2006+A1:2013	HC220Y
		HC260Y
Bake-Hardening High Yield Strength Steel For Cold Forming	EN 10268:2006+A1:2013	HC220B
		HC260B
	52814	FEE 220 BH

PROPERTIES	STANDARD	GRADE	
High Yield Strength Steels For Cold Forming	EN 10268:2006+A1:2013	HC260LA	
		HC300LA	
		HC340LA	
		HC380LA	
		HC420LA	
		HC460LA	
		HC500LA	
		11-04-002	XE-320DR
		WSB-M1 A 215-F1	Gr. 300
		EN 10268:2006+A1:2013	HC340LA Mod1
Dual Phase High Yield Strength Steel For Cold Forming	EN 10338:2015	11-04-002	
		52811	
Structural Steels	DIN 1623:2009	FEE 340 F	
		EN 10268:2006+A1:2013	HC460LA Mod
Carbon Steels	SAE J403 / ASTM A1008-16	HCT490X	
		HCT590X	
Carbon Steels	SAE J403	S215G	
		1006 / CS Type B	
		1008 / CS Type B	
		10B08	
		1010/CS Type B	
		1012	
Carbon Steel for Strap Production and Structural Applications	SAE J403-2014	1018 Special	
		1030	
Atmospheric Corrosion Resistance	JIS G 3125 : 2015	1040	
		1045	
Carbon Steel for Strap Production and Structural Applications	SAE J403-2014	1030 Mod	
Atmospheric Corrosion Resistance	JIS G 3125 : 2015	SPA-C	

Kalınlık / Thickness / Dicke 0,20 mm / 2 mm
Genişlik / Width / Breite max 1500 mm

Cold Rolled Low Carbon Steels For Drawing and Deep Drawing

Kaltgewalzte Stähle mit niedrigem Kohlenstoffgehalt zum Ziehen und Tiefziehen

Standard: EN 10130:2006

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	P max.	Cu	S max.	Mn max.	B	Ti
Standard	Grade								
EN 10130	DC01	6112	0.12	0.045	-	0.045	0.60	-	-
EN 10130	DC01	7612	0.12	0.045	-	0.045	0.60	20-50	-
EN 10130	DC03	6113	0.10	0.035	-	0.035	0.45	-	-
EN 10130	DC03	7313	0.10	0.035	-	0.035	0.45	-	-
EN 10130	DC04	6114	0.08	0.030	-	0.030	0.40	-	-
EN 10130	DC05	6115	0.06	0.025	-	0.025	0.35	-	-

Mechanical Properties

Corresponding		Erdemir Steel Grade	Surface Quality	Guarantee Period		R _e N/mm ² (kg/mm ²) max.	R _m N/mm ² (kg/mm ²)	A80 (%) min.	r 90 min.	n90 min.
Standard	Grade			Absence of Stretcher Strains Marks (month)	Validity of Mechanical Properties (month)					
EN 10130	DC01	6112	A	-	-	280	270-410	28	-	-
			B	3		[28.6]	[27.5-41.8]			
EN 10130	DC01	7612	A	-	-	280	270-410	28	-	-
			B	3		[28.6]	[27.5-41.8]			
EN 10130	DC03	6113	A	6	6	240	270-370	34	1.3	-
			B			[24.5]	[27.5-37.7]			
EN 10130	DC03	7313	A	6	6	240	270-370	34	1.3	-
			B			[24.5]	[27.5-37.7]			
EN 10130	DC04	6114	A	6	6	210	270-350	38	1.6	0.18
			B			[21.4]	[27.5-35.7]			
EN 10130	DC05	6115	A	6	6	180	270-330	40	1.9	0.20
			B			[18.4]	[27.5-33.7]			

Cold Rolled Low Carbon Steels For Drawing and Deep Drawing

Kaltgewalzte Stähle mit niedrigem Kohlenstoffgehalt zum Ziehen und Tiefziehen

Standard: ASTM A1008-2015

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C	Mn max.	P max.	S max.	Al min.	Cu max.	Ni max.	Cr max.	Mo max.	v max.	Nb max.	Ti max.
Standard	Grade													
ASTM A1008-2015	DS Type B	7113	0,02-0,0	0.50	0.020	0.020	0.020	0.20	0.20	0.15	0.06	0.008	0.008	0.025

Mechanical Properties

Corresponding			Erdemir Grade No	Re N/mm ² (kg/mm ²)	A50 (%) min.	rort min.	n min.
Standard	Grade	Similar Standard / Grade					
ASTM A1008-2015	DS Type B	-	7113	150-240 (15.3-24.4)	36	1.3-1.7	0.17-0.22

Cold Rolled Low Carbon Steels For Drawing and Deep Drawing

Kaltgewalzte Stähle mit niedrigem Kohlenstoffgehalt zum Ziehen und Tiefziehen

Standard: ASTM A1008-2015

Chemical Composition (%)

Corresponding		Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Ti max.
Standard	Grade						
ERDEMİR-15	ERDEMİR-DC02	7112	0.10	0.45	0.035	0.035	-

Mechanical Properties

Corresponding			Erdemir Grade No	Surface Quality	Guarantee Period		Re N/mm ² (kg/mm ²)	RmN/m ² (kg/mm ²)	A50 (%) min.
Standard	Grade	Similar Standard / Grade			Absence of Stretcher Strains Marks (month)	Validity of Mechanical Properties (month)			
ERDEMİR-15	ERDEMİR- DC02	-	7112	A	-	-	180-260	270-390	30
				B	3		18.3-26.4	27.4-39.6	

Cold Rolled Low Carbon Steels For Deep Drawing

Kaltgewalzte Stähle mit niedrigem Kohlenstoffgehalt zum Tiefziehen

Standard: TSG3100G

Chemical Composition (%)									
Corresponding			Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Al min.
Standard	Grade	Similar Standard / Grade							
TSG3100G	SPC270C	EN 10130 / DC03	120	0.06	0.20	0.020	0.015	0.030	0.080
TSG3100G	SPC270C	EN 10130 / DC03	121	0.06	0.20	0.020	0.015	0.030	0.080

Mechanical Properties									
Corresponding			Erdemir Steel Grade	Thickness d (mm)	R _e N/mm2(kg/mm2)	R _m N/mm2(kg/mm2) min.	A80 (%)		
Standard	Grade	Similar Standard / Grade					min.	max.	
TSG3100G	SPC270C	EN 10130 / DC03	120	0.40≤d<1.00	165-225 [16.8-23.0]	270 [27.6]	38	45	
TSG3100G	SPC270C	EN 10130 / DC03	121	1.00≤d<1.40	165-225 [16.8-23.0]	270 [27.6]	40	47	

Cold Rolled Ultra Low Carbon Drawing and Deep Drawing Steels For Home Appliances

Kaltgewalzte ultrakohlenstoffarme Zieh- und Tiefziehstähle für Haushaltsgeräte

Standard: EN 10130:2006

Chemical Composition (%)							
Corresponding		Erdemir Steel Grade	C max.	P max.	S max.	Mn max.	Ti max.
Standard	Grade						
EN 10130	DC01	7122	0.12	0.045	0.045	0.60	0.050-0.060
EN 10130	DC03	7123	0.10	0.035	0.035	0.45	0.060-0.070
EN 10130	DC04	7114	0.08	0.030	0.030	0.40	0.065-0.075
EN 10130	DC04	145	0.07	0.030	0.025	0.35	0.085-0.095
EN 10130	DC05	7115	0.06	0.025	0.025	0.35	0.085-0.095
EN 10130	DC06	7116	0.02	0.020	0.020	0.25	0.30

Mechanical Properties										
Corresponding		Erdemir Steel Grade	Surface Quality	Guarantee Period		R _e N/mm2 (kg/mm2) max.	R _m N/mm2(kg/mm2)	A 80 (%) min.	r 90 min.	n 90 min.
Standard	Grade			Absence of Stretcher Strains Marks (month)	Validity of Mechanical Properties (month)					
EN 10130	DC01	7122	A	-	-	280	270-410	28	-	-
			B	3	3	[28.6]	[27.5-41.8]			
EN 10130	DC03	7123	A	6	6	240	270-370	34	1.3	-
			B			[24.5]	[27.5-37.7]			
EN 10130	DC04	7114	A	6	6	210	270-350	38	1.6	0.18
			B			[21.4]	[27.5-35.7]			
EN 10130	DC04	145	A	6	6	190	270-330	40	1.6	0.18
			B			[19.3]	[27.6-33.6]			
EN 10130	DC05	7115	A	6	6	180	270-330	40	1.9	0.20
			B			[18.4]	[27.5-33.7]			
EN 10130	DC06	7116	A	Unlimited	6	170	270-330	41	2.1	0.22
			B			[17.3]	[27.6-33.7]			

Cold Rolled Ultra Low Carbon Extra Deep Drawing Steels For Automotive

Kaltgewalzte Stähle mit extrem niedrigem Kohlenstoffgehalt zum Tiefziehen für die Automobilindustrie

Standard: EN 10130:2006

Chemical Composition[%]							
Corresponding		Erdemir Steel Grade	C max.	P max.	S max.	Mn max.	Ti max.
Standard	Grade						
EN 10130	DC04	7124	0.08	0.030	0.030	0.40	-
EN 10130	DC04	7314	0.08	0.030	0.030	0.40	-
EN 10130	DC05	7315	0.06	0.025	0.025	0.35	-
EN 10130	DC06	7316	0.02	0.020	0.020	0.25	0.30

Mechanical Properties									
Corresponding		Erdemir Steel Grade	Guarantee Period		R _e N/mm ² (kg/mm ²)max.	R _m N/mm ² (kg/mm ²)	A80 [%] min.	r 90 min.	n90 min.
Standard	Grade		Absence of Stretcher Strains Marks (month)	Validity of Mechanical Properties (month)					
EN 10130	DC04	7124	6	6	210 (214)	270-350 (275-35.7)	38	1.6	0.18
EN 10130	DC04	7314	6	6	210 (214)	270-350 (275-35.7)	38	1.6	0.18
EN 10130	DC05	7315	6	6	180 (184)	270-330 (275-33.7)	40	1.9	0.20
EN 10130	DC06	7316	Unlimited	6	170 (174)	270-330 (275-33.7)	41	2.1	0.22

Cold Rolled Ultra Low Carbon For Deep Drawing Steels Suitable For Automotive Industry

Kaltgewalzte Stähle mit extrem niedrigem Kohlenstoffgehalt zum Tiefziehen, geeignet für die Automobilindustrie

Standard: Miscellaneous

Chemical Composition (%)												
Corresponding			Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Ti max.	Nb max.	Al	CE % max.
Standard	Grade	Similar Standard/Grade										
11-04-013	XES	EN 10130 / DC04	130	0.080	0.50	0.025	0.025	0.04	0.050-0.060	0.010-0.020	0.005-0.070	0.16
TSG3100G	SPC270D	EN 10130 / DC04	131	0.007	0.25	0.015	0.020	0.03	-	-	-	-
TSG3100G	SPC270D	EN 10130 / DC04	132	0.007	0.25	0.015	0.020	0.03	-	-	-	-

Mechanical Properties													
Corresponding			Erdemir Steel Grade	Thickness d (mm)	R _{0.2} N/mm ² (kg/mm ²)	R _m N/mm ² (kg/mm ²)	A80 [%]		_ r min.	r90 min.	_ n min.	n90 min.	Guarantee Period
Standard	Grade	Similar Standard/Grade					min.	max.					
11-04-013	XES	EN 10130 / DC04	130	d ≤ 1.50 d > 1.50	160-200 (16.3-20.4) 160-210 (16.3-21.4)	280-350 (28.6-35.7)	37	-	-	1.80	-	0.19	6 month
TSG3100G	SPC270D	EN 10130 / DC04	131	0.40 ≤ d < 1.00	145-190 (14.8-19.4)	270 min. (27.6)	41	48	140	-	0.20	-	12 month
TSG3100G	SPC270D	EN 10130 / DC04	132	1.00 ≤ d < 140	145-190 (14.8-19.4)	270 min. (27.6)	43	50	140	-	0.20	-	12 month

Cold Rolled Steels For Enamelling

Kaltgewalzte Stähle zum Emaillieren

Standard: EN 10209:2013

Chemical Composition (%)							
Corresponding		Erdemir Steel Grade	C max.	Ti max.	Mn max.	P max.	S max.
Standard	Grade						
EN 10209	DC01EK	7512	0.08	-	0.60	0.045	0.050
EN 10209	DC01EK	6512	0.08	-	0.60	0.045	0.050
EN 10209	DC04EK	6513	0.08	-	0.50	0.030	0.050
EN 10209	DC04EK	7513	0.08	-	0.50	0.030	0.050
EN 10209	DC05EK	513	0.08	-	0.50	0.025	0.050
EN 10209	DC04ED	7514			0.40	0.030	0.050
EN 10209	DC04ED Mod	504	0.02	0.30	0.35	0.020	0.050
EN 10209	DC06ED	7516	0.02	0.30	0.35	0.020	0.050

Mechanical Properties							
Corresponding		Erdemir Steel Grade	R _e N/mm2 (kg/mm2) max.	R _m N/mm2 (kg/mm2)	A 80 (%) min.	r _n (%) min.	Guarantee Period
Standard	Grade						Absence of StRecther Strain Marks and Validity of Mechanical Properties (month)
EN 10209	DC01EK	7512	270 (27.5)	270-390 (27.5-39.8)	30	-	6
EN 10209	DC01EK	6512	270 (27.5)	270-390 (27.5-39.8)	30	-	6
EN 10209	DC04EK	6513	220 (22.4)	270-350 (27.5-35.7)	36	-	6
EN 10209	DC04EK	7513	220 (22.4)	270-350 (27.5-35.7)	36	-	6
EN 10209	DC05EK	513	220 (22.4)	270-350 (27.5-35.7)	36	1.5	6
EN 10209	DC04ED	7514	210 (21.4)	270-350 (27.5-35.7)	38	-	6
EN 10209	DC04ED Mod	504	220 (22.4)	270-350 (27.5-35.7)	36	1.5	6
EN 10209	DC06ED	7516	190 (19.4)	270-350 (27.5-35.7)	38	1.6	6

Cold Rolled High Yield Strength Steels For Cold Forming

Kaltgewalzte Stähle mit hoher Streckgrenze für die Kaltumformung

Standart: EN 10268:2006+A1:2013

Chemical Composition (%)												
Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	V max.	B max.	S max.	Al min.	Ti min.	Nb max.
Standard	Grade											
EN 10268	HC220Y	7022	0.01	0.30	0.90	0.08	-	-	0.025	0.01	0.12	0.09
EN 10268	HC260Y	7026	0.01	0.30	1.60	0.10	-	-	0.025	0.01	0.12	0.09

Mechanical Properties									
Corresponding		Erdemir Steel Grade	R _{p0.2} / Re N/mm2(kg/mm2)	R _m N/mm2 (kg/mm2)	A 80 (%) min.	r90 min.	n90 min.	Guarantee Period (month)	
Standard	Grade								
EN 10268	HC220Y	7022	220-270 (22.4-27.5)	340-420 (35.7-42.8)	33	1.6	0.18	6	
EN 10268	HC260Y	7026	260-320 (26.5-32.6)	380-440 (38.8-44.9)	31	1.4	0.17	6	

Cold Rolled Bake-Hardening High Yield Strength Steel For Cold Forming

Kaltgewalzter, backhärtender Stahl mit hoher Streckgrenze für die Kaltumformung

Standart: EN 10268:2006+A1:2013

Chemical Composition (%)									
Corresponding		Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Al min.	
Standard	Grade								
EN 10268	HC220B	7722	0.08	0.70	0.085	0.030	0.50	0.015	
EN 10268	HC260B	7726	0.1	1.0	0.10	0.030	0.50	0.015	

Mechanical Properties									
Corresponding		Erdemir Steel Grade	Re N/ m2 (kg/mm2)	BH2 N/mm2 (kg/mm2) min.	Rm N/mm2 (kg/mm2)	A 80 (%) min.	r min.	n min.	Guarantee Period (month)
Standard	Grade								
EN 10268	HC220B	7722	220-270 (22.5-27.5)	35 (3.57)	320-400 (32.7-40.7)	32	1.5	0.16	6
EN 10268	HC260B	7726	260-320 (26.5-32.6)	35 (3.57)	360-440 (36.7-44.9)	29	-	-	6

Cold Rolled Bake-Hardening High Yield Strength Steel For Cold Forming

Kaltgewalzter, backhärtender Stahl mit hoher Streckgrenze für die Kaltumformung

Standard: EN 10209:2013

Corresponding		Erdemir Steel Grade	C	Mn	P	S max.	Si max.	Al
Standard	Grade							
52814	FEE 220 BH	171	0.007-0.06	0.15-0.70	0.05-0.09	0.030	0.50	0.020-0.070

Corresponding		Erdemir Steel Grade	Re N/mm2(kg/mm2)	BH(BH2+WH) N/mm2(kg/mm2) min.	Rm N/mm2 (kg/mm2)	A80 (%) min.	r90 min.	n90 min.	Guarantee Period (month)
Standard	Grade								
52814	FEE 220 BH	171	200-270 [20.5-27.5]	80 [8.16]	305-400 [31.5-40.5]	32	1.6	0.15	6

Cold Rolled High Yield Strength Steels For Cold Forming

Kaltgewalzte Stähle mit hoher Streckgrenze für die Kaltumformung

Standart: EN 10268:2006+A1:2013

Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	S max.	Al min.	V max.	B max.	Nb max.	Ti max.
Standard	Grade											
EN 10268	HC260LA	7125	0.10	0.50	1.0	0.030	0.025	0.015	-	-	0.090	0.15
EN 10268	HC300LA	7128	0.12	0.50	1.4	0.030	0.025	0.015	-	-	0.090	0.15
EN 10268	HC340LA	7132	0.12	0.50	1.5	0.030	0.025	0.015	-	-	0.090	0.15
EN 10268	HC380LA	7136	0.12	0.50	1.60	0.030	0.025	0.015	-	-	0.090	0.15
EN 10268	HC420LA	7140	0.14	0.50	1.60	0.030	0.025	0.015	-	-	0.090	0.15
EN 10268	HC460LA	7146	0.14	0.60	1.80	0.030	0.025	0.015	-	-	0.090	0.15
EN 10268	HC500LA	7150	0.14	0.60	1.80	0.030	0.025	0.015	-	-	0.090	0.15

Corresponding		Erdemir Steel Grade	Transverse			Longitudinal		
Standard	Grade		Rp0.2/ReL N/mm2(kg/mm2)	Rm N/mm2(kg/mm2)	A80 (%) min.	Re N/mm2(kg/mm2)	Rm N/mm2(kg/mm2)	A 80 (%) min.
EN 10268	HC260LA	7125	260-330 [26.6-33.6]	350-430 [35.7-43.8]	26	240-310 [24.5-31.6]	340-420 [34.7-42.8]	27
EN 10268	HC300LA	7128	300-380 [30.6-38.7]	380-480 [38.7-48.9]	23	280-360 [28.6-36.7]	370-470 [37.8-47.9]	24
EN 10268	HC340LA	7132	340-420 [34.7-42.8]	410-510 [41.8-52.0]	21	320-410 [32.7-41.8]	400-500 [40.8-51.0]	22
EN 10268	HC380LA	7136	380-480 [38.7-48.9]	440-580 [44.9-59.1]	19	350-450 [35.7-45.9]	430-550 [43.9-56.0]	20
EN 10268	HC420LA	7140	420-520 [42.8-53.0]	470-600 [47.9-61.2]	17	390-500 [39.8-51.0]	460-580 [46.9-59.1]	18
EN 10268	HC460LA	7146	460-580 [46.9-59.1]	510-660 [52.0-67.2]	13	420-560 [42.9-57.0]	480-630 [49.0-64.2]	14
EN 10268	HC500LA	7150	500-620 [51.1-63.2]	550-710 [56.2-72.4]	12	460-600 [46.9-61.2]	520-690 [53.1-70.4]	13

Cold Rolled Steel For Atmospheric Corrosion Resistance

Kaltgewalzter Stahl für atmosphärische Korrosionsbeständigkeit

Standard: JIS G 3125 : 2015

Corresponding		Erdemir Steel Grade	C max.	Si	Mn max.	P	S max.	Cu	Cr	Ni max.
Standard	Grade									
JIS G 3125	SPA-C	9160	0.12	0.20-0.75	0.60	0.070-0.150	0.035	0.25-0.55	0.30-1.25	0.65

Corresponding		Erdemir Steel Grade	R _e N/mm2 (kg/mm2) min.	R _m N/mm2 (kg/mm2) min.	A50 (%) min.	Bend [long. 180°] mrb (d: thickness)
Standard	Grade					
JIS G 3125	SPA-C	9160	315 [32.1]	450 [45.9]	26	1.0 d

Cold Rolled Ultra Low Carbon For Deep Drawing Steels Suitable For Automotive Industry

Kaltgewalzter, extrem kohlenstoffarmer Werkstoff für Tiefziehstähle, geeignet für die Automobilindustrie

Standard: Miscellaneous

Chemical Composition [%]													
Corresponding			Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Nb max.	V max.	Al	Ti max.	Cu max.	Ce _q % max.
Standard	Grade	Similar Standard/Grade											
11-04-002	XE-320DR	EN 10268 / HC340LA	250	0.10	1.10	0.030	0.025	0.100	0.100	0.015-0.080	0.100	-	0.28
WSB-M1 A 215-F1	Gr. 300	EN 10268 / HC340LA	251	0.10	0.90	0.025	0.020	0.080	0.060	-	-	-	-
EN 10268:2006+A1:2013	HC340LA Özel1	WSS-M1A347-A4	255	0.12	1.5	0.030	0.025	0.090	-	0.015	0.15	-	-
11-04-002	XE-360DR	EN 10268 / HC380LA	260	0.11	1.40	0.030	0.025	0.100	0.100	0.015-0.080	0.100	-	0.31
52811	FEE 340 F	EN 10268 / HC380LA	261	0.12	1.50	0.030	0.030	0.045-0.055	0.040-0.050	0.015	-	-	-
EN 10268:2006+A1:2013	HC460LA Özel	EN 10268 / HC460LA	262	0.12	1.50	0.020	0.020	0.090	-	0.015	0.15	0.10	-

Mechanical Properties												
Corresponding			Erdemir Steel Grade	R _{p0.2} / R _{eL} N/mm ² (kg/mm ²)	R _m N/mm ² (kg/mm ²)	r90 min.	n90 min.	A50 (%) min.	A80 (%) min.	Bend (Trans., 180 °C)		
Standard	Grade	Similar Standard / Grade								D/a	mbd min.	
11-04-002	XE-320DR	EN 10268 / HC340LA	250	320-390 [32.7-39.8]	415-480(42.3-49.0)	0.50	0.13	-	-	24	-	
WSB-M1 A 215-F1	Gr. 300	EN 10268 / HC340LA	251	300-400 [30.6-40.8]	400 min. [40.8 min.]	-	-	-	23	-	-	
EN 10268:2006+A1:2013	HC340LA Mod1	WSS-M1A347-A4	255	350-450 [35.7-45.8]	430 [43.9]	-	-	-	25	-	-	
11-04-002	XE-360DR	EN 10268 / HC380LA	260	360-440 [36.7-44.8]	450-530 [45.9-54.1]	0.50	0.13	-	-	21	-	
52811	FEE 340 F	EN 10268 / HC380LA	261	340-420 [34.7-42.8]	410 min. [41.8]	-	-	0.13	-	20	0.5	
EN 10268:2006+A1:2013	HC460LA Mod	EN 10268 / HC460LA	262	460-580 [46.9-59.1]	529-680 [54.0-69.4]	-	-	0.13	-	16	-	

Cold Rolled Dual Phase High Yield Strength Steel For Cold Forming

Kaltgewalzter Dualphasenstahl mit hoher Streckgrenze für die

Standard: EN 10338:2015

Chemical Composition [%]												
Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	S max.	Al max.	Cr+Mo max.	Nb+Ti max.	V max.	B max.
Standard	Grade											
EN 10338:2015	HCT490X	7650	0.14	0.75	2.00	0.08	0.015	0.015-1.00	1.00	0.15	0.20	0.005
EN 10338:2015	HCT590X	7660	0.15	0.75	2.50	0.04	0.015	0.015-1.50	1.40	0.15	0.20	0.005

Mechanical Properties							
Corresponding		Erdemir Steel Grade	R _{p0.2} / Re N/mm ² (kg/mm ²)	BH ₂ N/mm ² (kg/mm ²) min.	R _m N/mm ² (kg/mm ²) min.	A 80 (%) min.	n10-UE min.
Standard	Grade						
EN 10338:2015	HCT490X	7650	290-380 [29.6-38.7]	30 [3.1]	490 [50.0]	24	0.15
EN 10338:2015	HCT590X	7660	330-430 [33.7-43.8]	30 [3.1]	590 [60.2]	20	0.14

Chemical Composition [%]										
Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	S max.	Al	Cr max.	
Standard	Grade									
EN 10338:2015	HCT590X Mod	290	0.12	0.50	2.00	0.030	0.015	0.015-0.075	0.50	

Mechanical Properties					
Corresponding		Erdemir Steel Grade	R _e N/mm ² (kg/mm ²)	R _m N/mm ² (kg/mm ²) min.	A80 (%) min.
Standard	Grade				
EN 10338:2015	HCT590X Mod	290	300-480	629	18
			[30.6-49.0]	[64.2]	

Cold Rolled Structural Steels

Kaltgewalzter Baustahl

Standard: DIN 1623:2009

Chemical Composition (%)							
Corresponding		Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	N max.
Standard	Grade						
DIN 1623	S215G	4137	0.18	1.50	0.030	0.025	-
DIN 1623	S215G	6137	0.12	1.50	0.030	0.020	0.009

Mechanical Properties						
Corresponding		Erdemir Steel Grade	R _{p0.2} / ReH N/mm2 (kg/mm2)min.	R _m N/mm2 (kg/mm2)	A80 (%) min.	Guarante Period (month)
Standard	Grade					
DIN 1623	S215G	4137	215 [21.9]	360-510 [36.7-52.0]	20	6
DIN 1623	S215G	6137	215 [21.9]	360-510 [36.7-52.0]	20	6

Standard: Erdemir-18

Chemical Composition (%)						
Corresponding		Erdemir Steel Grade	C	Mn max.	P max.	S max.
Standard	Grade					
Erdemir-18	S325G Mod.	4138	0.16 - 0.19	1.50	0.030	0.025

Cold Rolled Carbon Steels

Kaltgewalzter Kohlenstoffstahl

Standard: SAE J403-2014

Chemical Composition (%)															
Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si	B	Cu max.	Ni max.	Cr max.	Mo max.	V max.	Nb max.	Ti max.
Standard	Grade														
SAE J403/ASTM A1008-16	1006 / CS Type B	6106	0.02-0.08	0.45 max.	0.025	0.035	0.10 max.	-	0.20	0.20	0.15	0.06	0.008	0.008	0.025
SAE J403 / ASTM A1008-16	1008 / CS Type B	6108	0.02-0.10	0.50 max.	0.025	0.035	0.10 max.	-	0.20	0.20	0.15	0.06	0.008	0.008	0.025
SAE J403	10B08	7608	0.10 max.	0.50 max.	0.025	0.035	0.10 max.	0.0008-0.005	-	-	-	-	-	-	-
SAE J403-2014/ ASTM A1008-16	1010/CS Type B	6110	0.08-0.13	0.30-0.60	0.025	0.035	0.10 max.	-	0.20	0.20	0.15	0.06	0.008	0.008	0.025
SAE J403	1012	4112	0.10-0.15	0.30-0.60	0.030	0.035	0.10 max.	-	-	-	-	-	-	-	-
SAE J403	1018 Special	6118	0.15-0.20	1.20-1.70	0.030	0.035	0.40 max.	-	-	-	-	-	-	-	-
SAE J403	1030	5130	0.28-0.34	0.60-0.90	0.030	0.035	0.15-0.35	-	-	-	-	-	-	-	-
SAE J403	1040	5140	0.37-0.44	0.60-0.90	0.030	0.035	0.15-0.35	-	-	-	-	-	-	-	-
SAE J403	1045	5145	0.43-0.50	0.60-0.90	0.030	0.035	0.15-0.35	-	-	-	-	-	-	-	-

Mechanical Properties					
Corresponding			Erdemir Steel Grade	Re N/mm2 (kg/mm2) max.	A50 (%) min.
Standard	Grade	Similar Standart / Grade			
SAE J403-2014/ASTM A1008-16	1006/CS Type B	-	6106	140-275 [14.3-28.0]	30
SAE J403-2014/ASTM A1008-16	1008/CS Type B	-	6108	140-275 [14.3-28.0]	30

Cold Rolled Carbon Steel for Strap Production and Structural Applications

Kaltgewalzter Kohlenstoffstahl für die Herstellung von Bändern und für

Standard: SAE J403-2014

Chemical Composition (%)							
Corresponding		Erdemir Steel Grade	C	Mn	P max.	S max.	Si
Standard	Grade						
SAE J403	1030 Mod	5131	0.25-0.34	1.20-1.70	0.030	0.020	0.15-0.45

GALVANİZ YASSI ÇELİK ÜRÜNLER

Galvanized Flat Steel / Verzinkter Flachstahl

PROPERTIES	STANDARD	GRADE
Zinc Coated (Galvanized) Low Carbon Steels for Cold Forming	EN 10346 : 2015	DX51D+Z
		DX52D+Z
		DX53D+Z
		DX53D+Z
		DX54D+Z
		DX56D+Z
		DX57D+Z
Zinc-Iron Alloy Coated (Galvanized) Low Carbon Steels For Cold Forming	ASTM A653/A653M-18	CS TYPE B
Zinc Coated (Galvanized) Low Carbon Steels for Cold Forming	WSD-M1 A333	A2 DC05
	11-04-013	XE
	WSS-M1 A365	A13
		A14
	WSD-M1 A333	A3 DC06
	11-04-013	XES
	B53 3106	XSG
	52806/9.52873	FEP04-ZNT/F/2S
		FEP05-ZNT/F/2S
		FEP04/FEP05-ZNT/F/2S
Continuously Hot-Dip Zinc Coated (Galvanized) Bake-Hardening High Yield Strength Steels For Cold Forming	EN 10346 : 2015	HX180BD+Z
		HX220BD+Z
		HX260BD+Z
		HX300BD+Z
	52814/9.52873	FEE 220 BH-ZNT/F/2S
	WSS-M1 A367	A22
		A23
	WSS-M1 A341	A5
	11-04-013	XE260BH
	Zinc Coated (Galvanized) Structural Steels	EN 10346 : 2015	S220GD+Z
S250GD+Z		
S280GD+Z		
S320GD+Z		
S350GD+Z		
WSB-M1 A215-F1		Gr. 250

Kalınlık / Thickness / Dick 0,30 mm / 3 mm
 Çinko Kaplama / Zinc coating / Zinkbeschichtung 60gr / 600 gr
 Genişlik / Width / Breite 700mm / 1500 mm



PROPERTIES	STANDARD	GRADE	
High Strength Low Alloyed Zinc Coated (galvanized) Steels by Continuous Hot-Dip Process for Cold Forming	EN 10346 : 2015	HX 260LAD+Z	
		HX 2300LAD+Z	
		HX340LAD+Z	
		HX380LAD+Z	
		HX420LAD+Z	
		HX460LAD+Z	
	11-04-002	XE 280 D	
	52811/9.52873	FEE 270 F - ZNT/F/2S	
		FEE 300 F - ZNT/F/2S	
	11-04-002	XE-320D	
WSB-M1 A215-F1	Gr. 300		
52811/9.52873	FEE 420 F - ZNT/F/2S		
11-04-002	XE-360D		
High Yield Strength Dual Phase Steel With Zinc Coating (Galvanized) By Continuous Hot-Dip Process For Cold Forming	EN 10346:2015	HCT490X+Z	
		HCT590X+Z	
		HCT780X+Z	
	52815/9.52873	FE 600 DP F ZNT/F/2S	
	WSS-M1 A348	A1	
	52815/9.52873	FE 600 DP F ZNT/F/2S	
	11 - 04 - 002 / -- L	XE360B	
	50002	DPC420Y780T	
	Zinc-Iron Alloy Coated (Galvanized) Structural Steels	EN 10346 : 2015	S220GD+ZF
			S250GD+ZF
S280GD+ZF			
S320GD+ZF			
S350GD+ZF			
Dual Phase High Yield Strength Steel For Cold Forming	EN 10338:2015	HCT490X	
		HCT590X	
Structural Steels	DIN 1623:2009	S215G	
Carbon Steels	SAE J403 / ASTM A1008-16	1006 / CS Type B	
		1008 / CS Type B	
	SAE J403	10B08	
	SAE J403-2014/ ASTM A1008-16	1010/CS Type B	
		1012	
	SAE J403	1018 Special	
		1030	
		1040	
	1045		
Carbon Steel for Strap Production and Structural Applications	SAE J403-2014	1030 Mod	
Atmospheric Corrosion Resistance	JIS G 3125 : 2015	SPA-C	

Zinc Coated (Galvanized) Low Carbon Steels For Cold Forming

Verzinkte Stähle mit niedrigem Kohlenstoffgehalt für die Kaltumformung

Standard: EN 10346 : 2015

Chemical Composition(%)								
Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	S max.	Ti max.
Standard	Grade							
EN 10346	DX51D+Z	1311	0.18	0.50	1.20	0.12	0.045	0.30
EN 10346	DX52D+Z	1312	0.12	0.50	0.60	0.10	0.045	0.30
EN 10346	DX53D+Z	1313	0.12	0.50	0.60	0.10	0.045	0.30
EN 10346	DX53D+Z	1303	0.12	0.50	0.60	0.10	0.045	0.30
EN 10346	DX54D+Z	1314	0.12	0.50	0.60	0.10	0.045	0.30
EN 10346	DX56D+Z	1315	0.12	0.50	0.60	0.10	0.045	0.30
EN 10346	DX57D+Z	1317	0.12	0.50	0.60	0.10	0.045	0.30

Mechanical Properties									
Corresponding		Erdemir Steel Grade	Guarantee Period(6)		Re Rp0.2/ReL N/mm2 (kg/mm2)	Rm N/mm2 (kg/mm2)	A 80 (%) min.	r90 min.	n90 min.
Standard	Grade		Validity of Mechanical Properties (month)	Absence of(4) Stretcher Strain Marks(month)					
EN 10346	DX51D+Z	1311	1	-	-	270-500 [27.6-51.0]	22	-	-
EN 10346	DX52D+Z	1312	1	-	140-300(3) [14.3-30.6]	270-420 [27.6-42.8]	26	-	-
EN 10346	DX53D+Z	1313	1	-	140-260 [14.3-26.5]	270-380 [27.6-38.7]	30	-	-
EN 10346	DX53D+Z	1303	1	-	140-260 [14.3-26.5]	270-380 [27.6-38.7]	30	-	-
EN 10346	DX54D+Z	1314	6	6	120-220 [12.2-22.4]	260-350 [26.5-35.7]	36	1.6(5)	0.18
EN 10346	DX56D+Z	1315	6	6	120-180 [12.2-18.4]	260-350 [26.5-35.7]	39	1.9(5)	0.21
EN 10346	DX57D+Z	1317	6	6	120-170 [12.2-17.3]	260-350 [26.5-35.7]	41	2.1(5)	0.22

Zinc-Iron Alloy Coated (Galvannealed) Low Carbon Steels For Cold

Mit Zink-Eisen-Legierung beschichtete (galvanisierte) Stähle mit niedrigem Kohlenstoffgehalt für die Kaltumformung

Standard: ASTM A653/A653M-18

Chemical Composition(%)														
Corresponding		Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Cu max.	Ni max.	Cr max.	Mo max.	V max.	Cb max.	Ti max.	
Standard	Grade													
ASTM A653/ A653M-17	CS TYPE B	1306	0.02-0.15	0.60	0.03	0.035	0.25	0.20	0.15	0.06	0.008	0.008	0.025	

Mechanical Properties				
Corresponding		Erdemir Steel Grade	Re Rp0.2/ReL N/mm2 (kg/mm2)	A 80 (%) min.
Standard	Grade			
ASTM A653/ A653M-17	CS TYPE B	1306	205-380 [20.9-38.7]	22

Standard: Miscellaneous

Chemical Composition(%)													
Corresponding			Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Al	Ti max.	Nb max.	CE % max.	
Standard	Grade	Similar Standard / Grade											
WSD-M1 A333	A2 DC05	EN 10346 / DX54D+Z	311	0.008	0.30	0.025	0.020	0.03	-	0.09	0.035	0.21	
11-04-013	XE	EN 10346 / DX53D+Z	312	0.080	0.50	0.025	0.025	0.04	0.005-0.070	-	-	0.16	
WSS-M1 A365	A13	EN 10346 / DX54D+Z	320	0.010	0.30	0.025	0.020	0.03	0.080 max.	0.09	0.035	-	
WSD-M1 A333	A3 DC06	EN 10346 / DX56D+Z	323	0.008	0.30	0.025	0.020	0.03	-	0.09	0.035	0.21	
11-04-013	XES	EN 10346 / DX54D+Z	324	0.080	0.50	0.025	0.025	0.04	0.005-0.070	0.11	-	0.16	
B53 3106	XSG	EN 10346 / DX54D+Z	325	0.080	0.40	0.025	0.025	0.10	0.02 min.	0.11	-	0.14	
52806/9.52873	FEP04-ZNT/F/2S	EN 10346 / DX54D+Z	326	0.008	0.30	0.025	0.020	0.03	0.02 min.	0.11	-	-	
52806/9.52873	FEP05-ZNT/F/2S	EN 10346 / DX56D+Z	327	0.008	0.30	0.025	0.020	0.03	0.02 min.	0.09	0.035	-	
52806/9.52873	FEP04/FEP05-ZNT/F/2S	EN 10346 / DX56D+Z	328	0.008	0.30	0.025	0.020	0.03	0.02 min.	0.09	0.035	-	

Zinc Coated (Galvanized) Low Carbon Steels For Cold Forming

Verzinkte Stähle mit niedrigem Kohlenstoffgehalt für die Kaltumformung

Mechanical Properties

Corresponding			Erdemir Steel Grade	Re N/mm2 (kg/mm2)	Rm N/mm2 (kg/mm2)	Re/Rm max.	A80 (%) min.	r90 min.	ravg min.	n90 min.
Standard	Grade	Similar Standard / Grade								
WSD-M1 A333	A2 DC05	EN 10346 / DX54D+Z	311	140-180 [14.3-18.4]	270-330[27.6-33.7]	-	40	2.00	-	0.20
11-04-013	XE	EN 10346 / DX53D+Z	312	180-230 [18.4-23.5]	300-370[30.6-37.7]	0.74	34	1.30	-	0.17
WSS-M1 A365	A13	EN 10346 / DX54D+Z	320	140-210 [14.3-21.4]	270-350[27.6-35.7]	-	38	1.60	1.50	0.18
WSS-M1 A365	A14	EN 10346 / DX56D+Z	321	140-180[14.3-18.4]	270-330[27.6-33.7]	-	40	1.90	1.60	0.20
WSD-M1 A333	A3 DC06	EN 10346 / DX56D+Z	323	120-165[12.2-16.8]	270 - 350[27.6-35.7]	-	40	2.10	-	0.22
11-04-013	XES	EN 10346 / DX54D+Z	324	160-200[16.3-20.4]	280-350[28.6-35.7]	0.66	37	1.80	-	0.19
B53 3106	XSG	EN 10346 / DX54D+Z	325	160-200[16.3-20.4]	280-340[28.6-34.6]	-	37	1.80	-	0.19
52806/9.52873	FEP04- ZNT/F/2S	EN 10346 / DX54D+Z	326	140-210[14.3-21.4]	270-350[27.5-35.7]	-	d<0.70 36	1.60	-	0.18
52806/9.52873	FEP05- ZNT/F/2S	EN 10346 / DX56D+Z	327	140-180[14.3-18.4]	270-330[27.5-33.7]	-	d<0.70 38	1.90	-	0.20
52806/9.52873	FEP05- ZNT/F/2S	DIN EN 10346 / DX56D+Z	328	140-170[14.3-17.3]	270-350[27.5-35.7]	-	d<0.70 38	1.90	-	0.20

Continuously Hot- Dip Zinc Coated (Galvanized) Bake-Hardening High Yield Strength Steels For Cold Forming

Kontinuierlich feuerverzinkte (verzinkte), einbrennhärtende Stähle mit hoher Streckgrenze für die Kaltumformung

Standard: EN 10346 : 2015

Chemical Composition(%)

Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	S max.	Al min.	Ti max.	Nb max.
Standard	Grade									
EN 10346	HX180BD+Z	1118	0.06	0.50	0.70	0.06	0.025	0.015	0.12	0.09
EN 10346	HX220BD+Z	1122	0.08	0.50	0.70	0.085	0.025	0.015	0.12	0.09
EN 10346	HX260BD+Z	1126	0.10	0.50	1.00	0.10	0.030	0.010	0.12	0.09
EN 10346	HX300BD+Z	1130	0.11	0.50	0.80	0.12	0.025	0.010	0.12	0.09

Mechanical Properties

Corresponding		Erdemir Steel Grade	Guarantee Period[5]		Rp0.2/ReL N/mm2 (kg/mm2)	BH2 N/mm2 (kg/mm2) min.	Rm N/mm2 (kg/mm2)	A 80 (%) min.	r 90 min.	n 90 min.
Standard	Grade		Validity of Mechanical Properties (month)	Absence of Stretcher Strains Marks (month)						
EN 10346	HX180BD+Z	1118	3	3	180-240 [18.4-24.5]	30 [3.1]	290-360 [29.6-36.7]	34	1.5	0.16
EN 10346	HX220BD+Z	1122	3	3	220-280 [22.4-28.6]	30 [3.1]	320-400 [32.6-40.8]	32	1.2	0.15
EN 10346	HX260BD+Z	1126	3	3	260-320 [26.5-32.6]	30 [3.1]	360-440 [36.7-44.9]	28	-	-
EN 10346	HX300BD+Z	1130	3	3	300-360 [30.6-36.7]	30 [3.1]	400-480 [40.8-49.0]	26	-	-

Standard: Miscellaneous

Chemical Composition(%)

Corresponding			Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Al max.	Ti max.	Nb max.	V max.	Ceq max.
Standard	Grade	Similar Standard / Grade											
52814/9.52873	FEE 220 BH- ZNT/F/2S	EN 10346 / HX220BD+Z	380	0.007-0.06	0.15-0.70	0.05-0.09	0.030	0.50	0.02-0.07	-	-	-	-
WSS-M1 A367	A22	EN 10346 / HX220BD+Z	381	0.010	0.70	0.080	0.025	0.10	0.080	0.060	0.030	-	-
WSS-M1 A367	A23	EN 10346 / HX260BD+Z	382	0.010	0.80	0.100	0.025	0.10	0.080	0.060	0.030	-	-
WSS-M1 A341	A5	EN 10346 / HX260BD+Z	383	0.010	0.80	0.10	0.025	0.10	0.080	0.060	0.030	-	-
11-04-013	XE260BH	EN 10346 / HX260BD+Z	384	0.12	0.80	0.03-0.09	0.025	0.25	0.005-0.080	0.12	0.035	0.010	0.30

Mechanical Properties

Corresponding			Erdemir Steel Grade	Re N/mm2 (kg/mm2)	Rm N/mm2 (kg/mm2)	A80 % min.	r90 min.	n90 min.	rort min.	BH N/mm2 (kg/mm2) min.
Standard	Grade	Similar Standard/Grade								
52814/9.52873	FEE 220 BH-ZNT/F/2S	EN 10346 / HX220BD+Z	380	200- 270 [20.4- 27.5]	305- 400 [31.1- 40.7]	32	1.6	0.15	-	80 [8.15]
WSS-M1 A367	A22	EN 10346 / HX220BD+Z	381	210-270 [21.4-27.5]	320 min. [32.6]	31	-	0.17	1.10	30 [3.1]
WSS-M1 A367	A23	EN 10346 / HX260BD+Z	382	240-300 [24.5-30.6]	340 min. [34.7]	28	-	0.17	1.10	30 [3.1]
WSS-M1 A341	A5	EN 10346 / HX260BD+Z	383	260-310 [26.6-31.6]	370-430 [37.8-43.8]	30	1.40	0.16	-	30 [3.1]
11-04-013	XE260BH	EN 10346 / HX260BD+Z	384	260-310 [26.6-31.6]	370-440 [37.8-44.9]	30	1.3	0.17	-	30 [3.1]

Zinc Coated (Galvanized) Structural Steels

Verzinkter Baustahl (verzinkt)

Standard: EN 10346 : 2015

Chemical Composition(%)							
Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	S max.
Standard	Grade						
EN 10346	S220GD+Z	1322	0.20	0.60	1.70	0.10	0.045
EN 10346	S250GD+Z	1325	0.20	0.60	1.70	0.10	0.045
EN 10346	S280GD+Z	1328	0.20	0.60	1.70	0.10	0.045
EN 10346	S320GD+Z	1332	0.20	0.60	1.70	0.10	0.045
EN 10346	S350GD+Z	1335	0.20	0.60	1.70	0.10	0.045

Mechanical Properties					
Corresponding		Erdemir Steel Grade	Rp0.2/ReH N/mm2 (kg/mm2) min.	R m N/mm2 (kg/mm2) min.	A 80 (%) min.
Standard	Grade				
EN 10346	S220GD+Z	1322	220 [22.4]	300 [30.6]	20
EN 10346	S250GD+Z	1325	250 [25.5]	330 [33.6]	19
EN 10346	S280GD+Z	1328	280 [28.6]	360 [36.7]	18
EN 10346	S320GD+Z	1332	320 [32.6]	390 [39.8]	17
EN 10346	S350GD+Z	1335	350 [35.7]	420 [42.8]	16

Zinc Coated (Galvanized) Structural Steels

Verzinkter Baustahl (verzinkt)

Standard: WSB-M1 A215-F1

Chemical Composition(%)									
Corresponding			Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Nb max.	V max.
Standard	Grade	Similar Standard / Grade							
WSB-M1 A215-F1	Gr. 250	EN 10346 / S250GD+Z	355	0.17	0.90	0.020	0.020	0.02	-

Mechanical Properties								
Corresponding			Erdemir Steel Grade	Rp0.2 N/mm2 (kg/mm2)	R m N/mm2 (kg/mm2)	Rp0.2/Rm max.	A50 (%) min.	A80 (%) min.
Standard	Grade	Similar Standard/Grade						
WSB-M1 A215-F1	Gr. 250	EN 10346 / S250GD+Z	355	250-350 [25.5-35.7]	350 min. [35.7]	-	25	-

High Strength Low Alloyed Zinc Coated (galvanized) Steels by Continous

Hochfeste, niedrig legierte, verzinkte Stähle im kontinuierlichen

Standard: EN 10346 : 2015

Chemical Composition(%)										
Corresponding		Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Al Total min.	Nb max.	Ti max.
Standard	Grade									
EN 10346	HX 260LAD+Z	1626	0.11	1.00	0.030	0.025	0.50	0.015	0.09	0.15
EN 10346	HX 300LAD+Z	1630	0.12	1.40	0.030	0.025	0.50	0.015	0.09	0.15
EN 10346	HX 340LAD+Z	1634	0.12	1.40	0.030	0.025	0.50	0.015	0.10	0.15
EN 10346	HX 380LAD+Z	1638	0.12	1.50	0.030	0.025	0.50	0.015	0.10	0.15
EN 10346	HX 420LAD+Z	1642	0.12	1.60	0.030	0.025	0.50	0.015	0.10	0.15
EN 10346	HX460LAD+Z	1643	0.15	1.70	0.03	0.025	0.5	0.015	0.10	0.15

Mechanical Properties					
Corresponding		Erdemir Steel Grade	Re N/mm2 (kg/mm2)	Rm N/mm2 (kg/mm2)	A 80 (%) min.
Standard	Grade				
EN 10346	HX 260LAD+Z	1626	260-330 [26.6-33.6]	350-430 [35.7-43.8]	26
EN 10346	HX 300LAD+Z	1630	300-380 [30.6-38.7]	380-480 [38.7-48.9]	23
EN 10346	HX 340LAD+Z	1634	340-420 [34.7-42.8]	410-510 [41.8-52.0]	21
EN 10346	HX 380LAD+Z	1638	380-480 [38.8-48.9]	440-560 [44.8-57.1]	19
EN 10346	HX 420LAD+Z	1642	420-520 [42.9-53.0]	470-590 [48.0-60.1]	17
EN 10346	HX460LAD+Z	1643	460-560 [46.9-57.0]	500-640 [51.0-65.2]	15

High Strength Low Alloyed Zinc Coated (galvanized) Steels by Continous

Hochfeste, niedrig legierte, verzinkte Stähle im kontinuierlichen Schmelztauchverfahren für die Kaltumformung

Standard: Miscellaneous

Mechanical Properties										
Corresponding			Erdemir Steel Grade	R _{p0.2} N/mm2 (kg/mm2)	R _m N/mm2 (kg/mm2)	R _{p0.2} /R _m max.	A50 (%) min.	A80 (%) min.	r90 min.	n90 min.
Standard	Grade	Similar Standard / Grade								
11-04-002	XE 280 D	EN 10346 / HX300LAD+Z	331	280-340 [26.6-34.6]	375-440 [38.3-44.9]	0.85	-	28	0.60	0.15
52811/9.52873	FEE 270 F - ZNT/F/2S	EN 10346 / HX 300LAD+Z	360	270-350 [27.6-35.6]	330 min. [33.7]	-	-	24	-	-
52811/9.52873	FEE 300 F - ZNT/F/2S	EN 10346 / HX340LAD+Z	365	300-380 [30.6-38.7]	370 [37.8]	-	-	22	-	0.14
11-04-002	XE-320D	EN 10346 / HX340LAD+Z	366	320-390 [32.7-39.7]	415-480 [42.3-49.0]	0.85	-	24	0.50	0.13
WSB-M1 A215-F1	Gr. 300	EN 10346 / HX340LAD+Z	367	300-400 [30.6-40.8]	400 min. [40.8]	-	23	-	-	-
52811/9.52873	FEE 340 F - ZNT/F/2S	EN 10346 / HX380LAD+Z	368	340-420 [34.7-42.8]	410 min. [41.8]	-	-	20	-	0.13
52811/9.52873	FEE 420 F - ZNT/F/2S	EN 10346 / HX420LAD+Z	369	420-520 [42.8-53.0]	480 [48.9]	-	-	16	-	0.11
11-04-002	XE-360D	EN 10346 / HX380LAD+Z	372	360-440 [36.7-44.8]	450-530 [45.9-54.1]	0.85	-	21	0.50	0.13

High Yield Strength Dual Phase Steel With Zinc Coating (Galvanized) By Continuous Hot-Dip Process For Cold Forming

Dualphasenstahl mit hoher Streckgrenze und Zinkbeschichtung (verzinkt) im kontinuierlichen Schmelztauchverfahren für die Kaltumformung

Standard: EN 10346:2015

Chemical Composition(%)												
Corresponding		Erdemir Steel Grade	C max.	Si max.	Mn max.	P max.	S max.	Al max.	Cr+Mo max.	Nb+Ti max.	V max.	B max.
Standard	Grade											
EN 10346	HCT490X+Z	1650	0.14	0.75	2.00	0.08	0.015	0.015 - 1.00	1.00	0.15	0.20	0.005
EN 10346	HCT590X+Z	1660	0.15	0.75	2.50	0.04	0.015	0.015 - 1.50	1.40	0.15	0.20	0.005
EN 10346	HCT780X+Z	1680	0.18	0.80	2.50	0.080	0.015	0.015 - 2.00	1.40	0.15	0.20	0.005

Mechanical Properties							
Corresponding		Erdemir Steel Grade	Rp0.2 / Re N/mm2 (kg/mm2)	BH2 N/mm2 (kg/mm2) min.	Rm N/mm2 (kg/mm2) min.	A80 (%) min.	n10-UE min.
Standard	Grade						
EN 10346	HCT490X+Z	1650	290-380 [29.6-38.7]	30 [3.1]	490 [50.0]	24	0.15
EN 10346	HCT590X+Z	1660	330-430 [33.7-43.8]	30 [3.1]	590 [60.2]	20	0.14
EN 10346	HCT780X+Z	1680	440-550 [44.9-56.1]	30 [3.1]	780 [79.6]	14	-

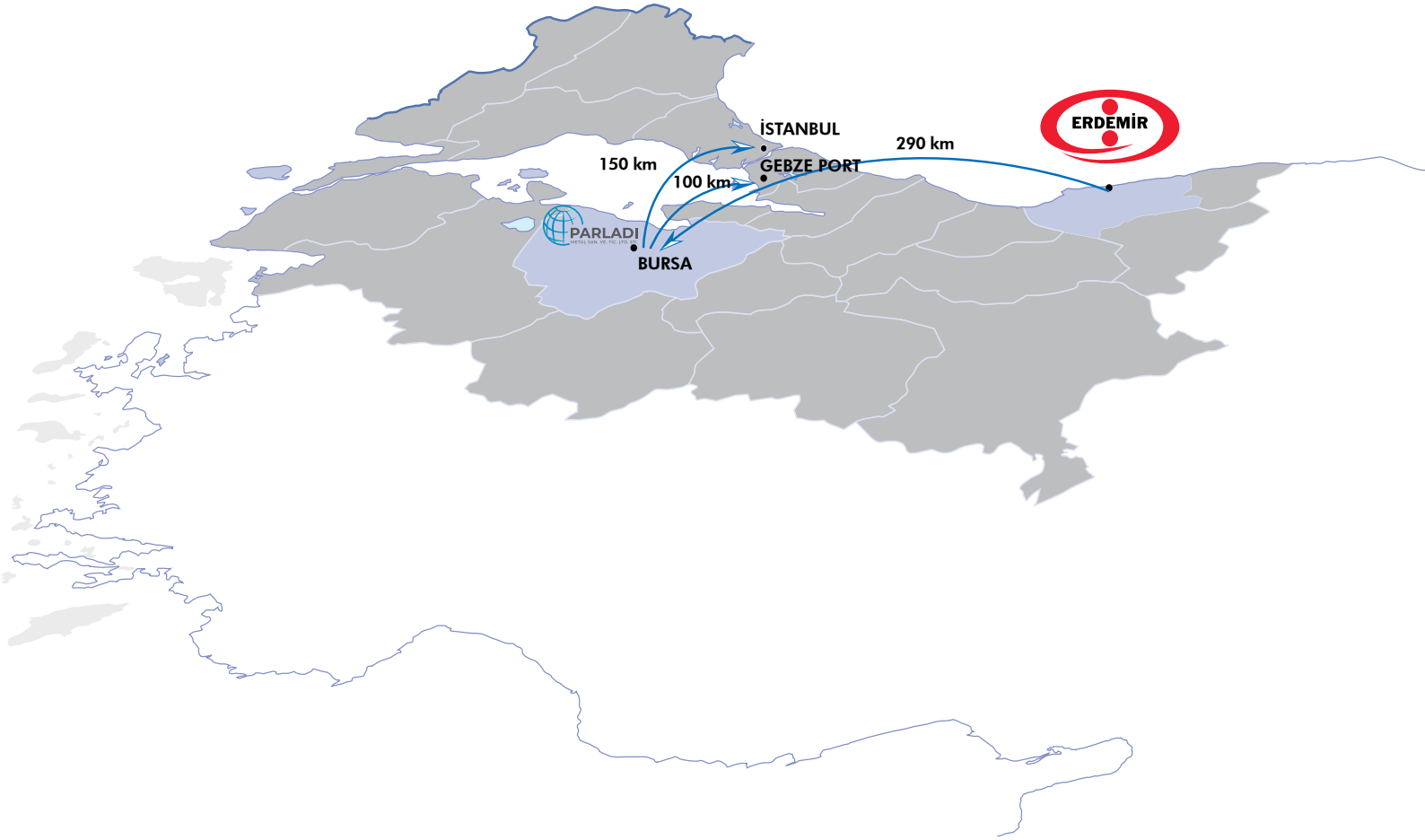
High Yield Strength Dual Phase Steel With Zinc Coating (Galvanized) By Continuous Hot-Dip Process For Cold Forming

Dualphasenstahl mit hoher Streckgrenze und Zinkbeschichtung (verzinkt) im kontinuierlichen Schmelztauchverfahren für die Kaltumformung

Standard: Miscellaneous

Chemical Composition(%)																		
Corresponding			Erdemir Steel Grade	C max.	Mn max.	P max.	S max.	Si max.	Al min.	Cu max.	B max.	Cu max.	Nb max.	Ti max.	V max.	Cr+Mo max.	Nb+Ti max.	C eq max.
Standard	Grade	Similar Standard / Grade																
52815/9.52873	FE 600 DP F ZNT/F/2S	EN 10346/ HCT600X+Z [DP600]	390	0.23	3.3	0.090	0.015	2.0	0.010 min.	0.20	0.006	-	-	-	-	-	-	-
WSS-MIA348	A1	EN 10346/ HCT450X+Z [DP450]	391	0.10	1.30	0.10	0.015	0.40	0.015-0.080	-	-	0.80	-	-	-	-	-	-
52815/9.52873	FE 600 DP F ZNT/F/2S	EN 10346/ HCT600X+Z [DP600]	392	0.23	3.3	0.090	0.015	2.0	0.010	0.20	0.006	-	-	-	-	-	-	-
11 - 04 - 002/-- L	XE360B	EN 10346/ HCT590X+Z [DP590]	393	0.14	2.10	0.040	0.015	0.4	0.015-0.080	-	-	-	0.01	0.05	0.01	-	-	0.44
50002	DPC420Y780T	EN 10346/ HCT780X+Z [DP780]	398	0.18	2.50	0.080	0.015	1.0	0.01 - 2.00	0.20	0.005	-	-	-	-	1.40	0.15	-

Mechanical Properties															
Corresponding			Erdemir Steel Grade	Rp0.2 / Re N/mm2 (kg/mm2)	Rm N/mm2 (kg/mm2) min.	BH2 N/mm2 (kg/mm2) min.	A50 (%) min.	A 80 (%) min.	n 10-20 % min.	n(4) 4-6 % min.	n (6) 90 min.	r Ag %			
Standard	Grade	Similar Standard / Grade										Long. min.	Trans. min.		
52815/9.52873	FE 600 DP F ZNT/F/2S	EN 10346/ HCT600X+Z [DP600]	390	340-440 [34.7-44.8]	590 [60.1]	30 [3.1]	-	20	0.14	0.18	-	-	-		
WSS-MIA348	A1	EN 10346/ HCT450X+Z [DP450]	391	260-330 [26.6-33.6]	450 [45.9]	30 [3.1]	30	-	-	-	-	-	-		
52815/9.52873	FE 600 DP F ZNT/F/2S	EN 10346/ HCT600X+Z [DP600]	392	340-400 [34.7-40.7]	590 [60.1]	30 [3.1]	-	20	0.14	0.18	-	-	-		
11-04-002/--L	XE360B	EN 10346/ HCT590X+Z [DP590]	393	360-430 [36.8-43.8]	590-750 [60.2- 76.5]	30 [3.1]	-	21	-	-	0.14	0.8	1.0		
50002	DPC420Y780T	EN 10346/ HCT780X+Z [DP780]	398	420-550 [42.9-56.1]	780 [79.6]	30 [3.1]	-	14	0.15	0.11	-	-	-		



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