

# thyssenkrupp Materials Ibérica

**Products and Services Presentation** 



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#### Team: more than 180 professionals at your disposal











### Contact

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#### www.thyssenkrupp-materials.es



### Team and contact

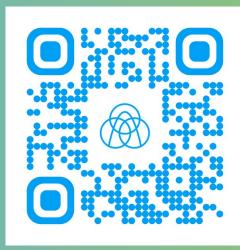






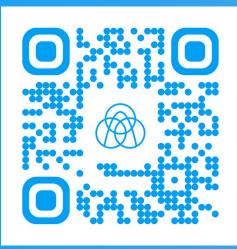
Khaoula Loukili

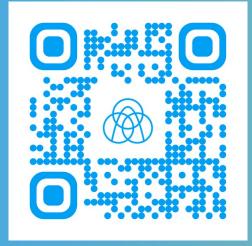
Stainless steel area



**Ricardo Resende** Aluminum area

**Juan Miguel Contreras** Heavy plate and tool steel area







Alvaro de Azcoitia Welding area





#### We lead solutions that provide

#### added value to our clients





Integration of the first production processes

Integrated supply chain management



Development of integrated projects

Maintenance and supply kits



Distribution of parts of the project



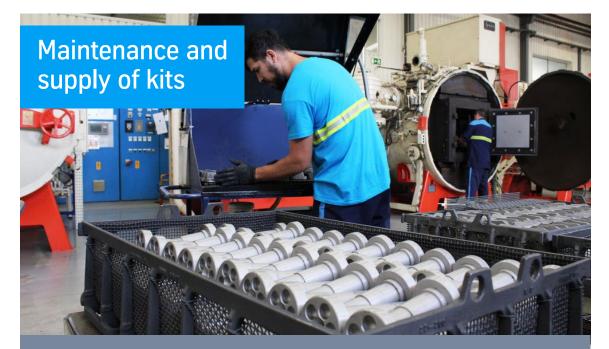
#### **MaaS Service:**



We handle the material from the factory to its final destination with complete logistics management.



We carry out operations that save time for our clients: machining, milling, oxyplasma, welding, heat treatments, cutting to size, processing, etc.



We bundle and package multiple components from different sources and ship them as a single source.



We process and distribute finished parts that are required as a component within your final assembly.





We use our network of warehouses in Spain and Portugal to manage the material and distribute it in partial orders.



We assemble various components to provide the final assembly to the client.

#### **Sustainability:**

#### We work with sustainable certificates to continue building a responsible and emissions-free future.







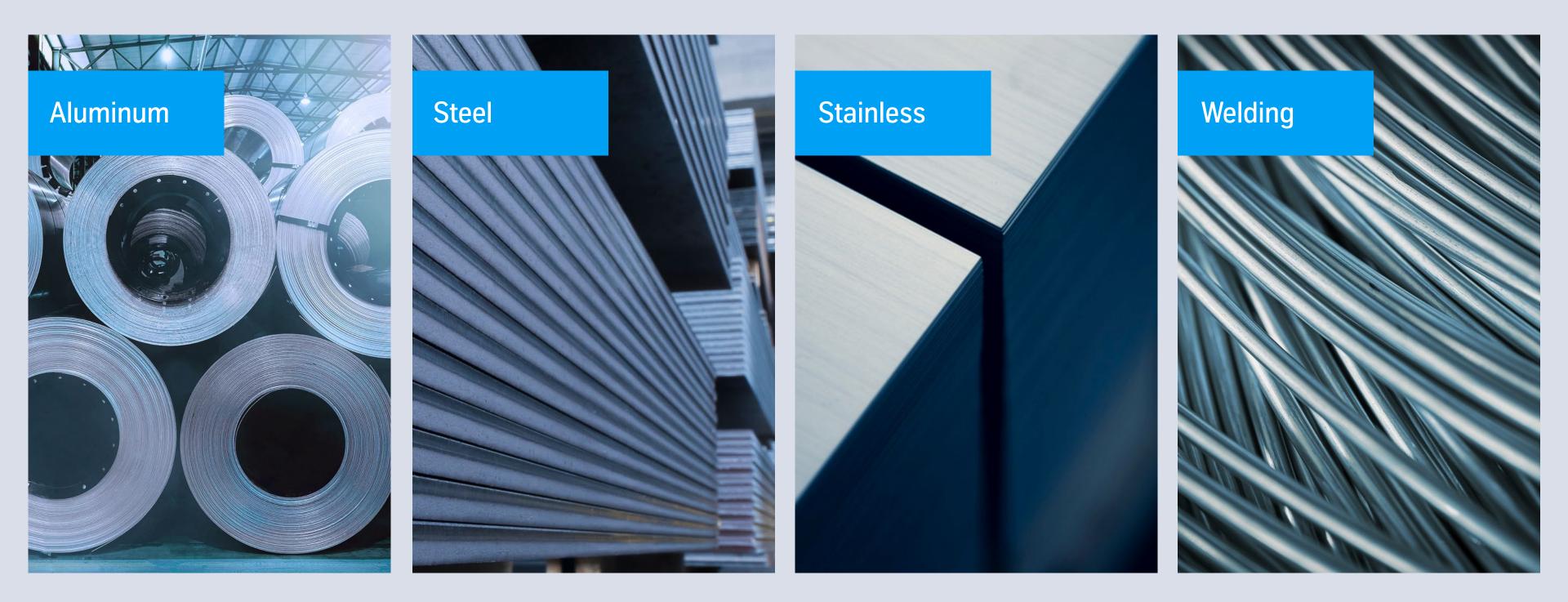
# 2030 Goal: **Climate Neutrality**





tk Materials Iberia	Spain	
Martorelles	HQ and Central Warehouse and SC	
Zona Franca, Barcelona	SC and Stainless Steel Warehouse	
tk Materials Ibérica   Portugal		
Carregado	Central warehouse	
Marinha Grande	Heat treatment	
Rio Meão, Porto	Warehouse and SC, Aluminum and Non-Ferrous Metals	
Paços de Brandão	Aluminum and Non-Ferrous Metals Warehouse	

### Our materials





### Our products











Quality
TI-300
TI-400
perdur® 400
TI-450
perdur® 450
TI-500

Quality

S500MC

perform®700 S700MC

S690QL

S890QL / S96

#### Wear-resistant Special Structural Steels



	Thicknesses	Formats
	6 to 40 mm	2000 x 6000mm
	3 to 100 mm	1500 x 3000/6000/8000 mm 2000 x 6000/8000 mm 2450 x 8000 mm
)	4 to 8 mm	1500 x 3000/6000 mm
	4 to 40 mm	1500 x 3000/6000 mm 2000 x 6000/8000 mm 2450 x 8000 mm
)	4 to 8 mm	1500 x 3000/6000 mm
	6 to 50 mm	2000 x 6000 mm

#### strength Structural Steels

	Thicknesses	Formats
	3 to 8 mm	1500 x 3000/6000 mm
)0	3 to 12 mm	1500 x 3000/6000 mm
	8 to 100 mm	2000 x 6000/8000 mm
)60QL	50 to 100 mm	2000 x 6000 mm

### Heavy Plate Catalog



#### High Temperature Sheet and Case-hardening

Quality	Thicknesses	Formats
16Mo3	2,5 to 8 mm	Coils 1000/1250/1500/2000mm
16Mo3	5 to 30 mm	Sheets 2000 x 6000/8000 mm
13CrMo4-5	4 to 40 mm	2000 x 6000 mm
16MnCr5 (case-hardening)	4 to 50 mm	Width 1500 mm Width 2000 mm

#### Quality

TBL®Boron S 27/28/30Mn

Boron steel

C45

S355J0/2W/I Patinax®

S355J0/2W/I Patinax®

S355J2+N



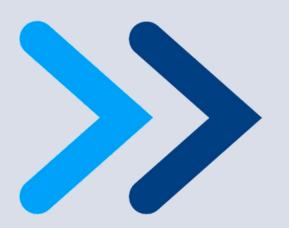
#### **Construction Steel**



	Thicknesses	Formats
Steel 185	4 to 12 mm	Coil 1500 mm L 2000/3000/6000 mm
	15 mm	Sheet 2000 x 6000 mm
	2 to 30 mm	Width 1250/1500/2000 L = 2000/3000/6000 mm
/P	1 to 10 mm	Coil 1000/1250/1500/2000 mm
/P	8 to 10 mm 8 to 30 mm	Sheets 2000 x 8000 mm Sheets 2500 x 12000 mm
	8 to 100 mm 3 to 25 mm	Width 2500 mm Width 1500 mm

### **Heavy Plate Services**





# We add value to the supply chain

#### **Custom Cut**

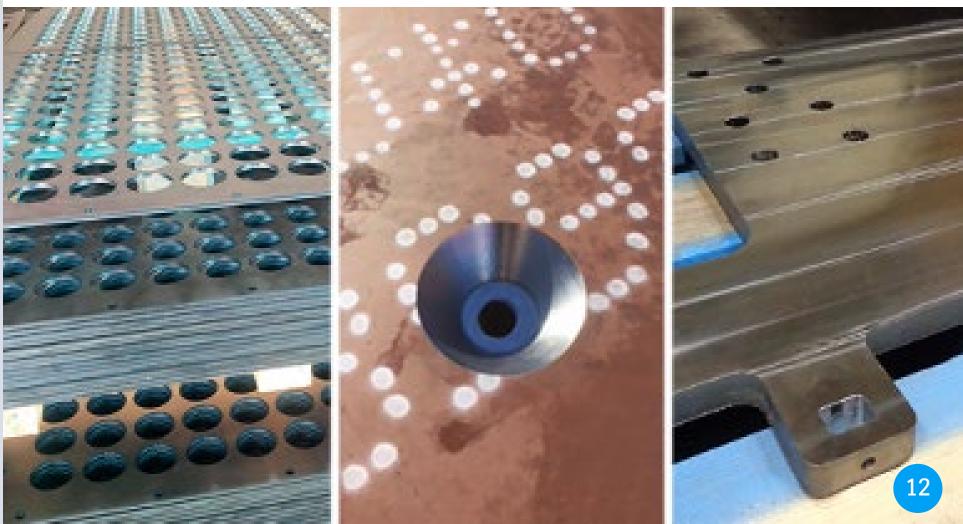
#### Туре

HD Plasma **High Definition** 

**CNC Oxycut** 

Drilling / Counters Threading Chamfering Marking Folding

Milling







	Capacity
	3000 x 12000 mm Thickness up to 60 mm
	3000 x 12000 mm Thickness <150 mm
rsinking	Up to Ø110 mm

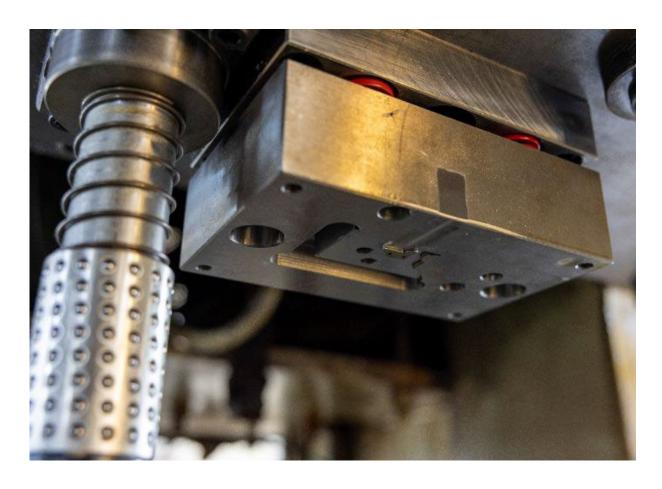
Under consultation

2.5 axes

#### Cold Work Steels

Quality	DIN	Applications
1.1730	C45u	Supplements, die bases, hammers, axes, sickles, blades, saws, etc.
Chapa azul 1.2018	90Cr2	The 'blue sheet', with reduced tolerance, allows for fine and precise tracing. It is used for gauges, springs, bearers, cutting tools, blades, pressure plates, supports, templates, etc.
1.2080	X210Cr12	High-performance cutting and punching tools, blades.
1.2162	21MnCr5	Case-hardening steel for machine construction, plastic moulds, dies, synthetic resin pressing moulds, gear parts.
Acero plata 1.2210	115CrV3	'Silver steel' Cr-V for positioning pins and cutting tools with limited performance.
1.2358	60CrMoV18-5	Sheet metal cutting and forming, deep drawing, complex cold working dies, rollers, shears.
1.2363	X100CrMoV5	Circular blades, stamping and deburring tools.
1.2379	X153CrMoV12	Thread rolling rollers and combs, cutting dies, circular blades.
1.2436	X210CrW12	High-performance cutting dies, shears.
1.2510	100MnCrW4	Tapping tools, milling cutters, punching and cutting tools.
1.2550	60WCrV7	Cold punches for thick sheets.
1.2709	X3NiCoMoTi8-9-5	Press punches, fittings.
1.2746	45NiCrMoV16-6	Shear blades, pressing dies.
1.2767	X45NiCrMo4	Stamps for cutlery, pressing tools, shear blades.
1.2842	90MnCrV8	Cutting and stamping tools, small blades.
1.2990	~X100CrMoV8-1-1	Blades, fine cutting tools, laminating combs, circular blades, mandrels for cold forming, for wood cutting, laminating rollers, moulds for abrasive substances.







#### High-speed Steels

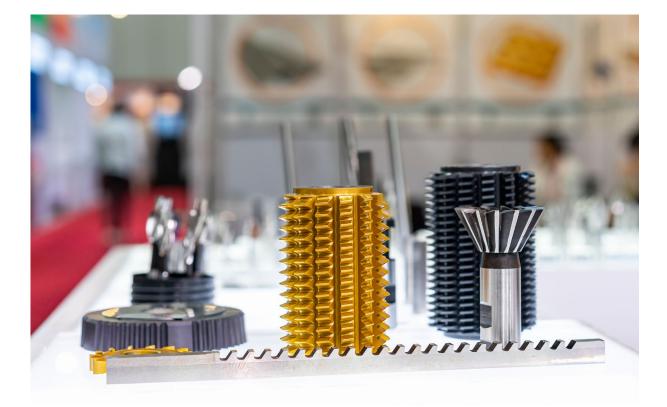
Quality	DIN	Applications
1.3243	HS 6-5-2-5 (M35)	All types of drill bits, for the most demanding applications.
1.3247	HS 2-10-1-8 (M42)	Milling cutters, engraving dies, high wear tools.
1.3343	HS 6-5-2 C (M2)	Reamers, twist drills, milling cutters, fine cutting dies.
1.3344	HS 6-5-3 (M3/2)	High-performance tools with maximum wear resistance.

#### Powder Metallurgy Steels

Quality	DIN	Applications
TSP 4	HS 6-5-4 (~ M4 PM)	Cold working, universal use. When cold, it has greater toughness and wear resistance than TSP 23.
TSP 8	HS 8-6-3-2	Compaction of abrasive powders. For cold work. Excellent resistance to abrasive wear.
TSP 23	HS 6-5-3 (~ M3/2 PM)	Standard powder metallurgy steel for cutting tools.







#### Hot Work Steels

Quality	DIN	Applications
1.2329	46CrSiMoV7	It has greater resistance to tempering at temperatures > 300°C than 1.2714 and greater wear resistance. For pressure rings, forging dies and dies for preform presses.
1.2343/2343 SUPRA	X38CrMoV5-1	Light metal pressure injection moulds. Optional ESR-ESU (SUPRA) remelting.
1.2344/2344 SUPRA	X40CrMoV5-1	Punches and mandrels, light metal extrusion dies. Optional ESR-ESU (SUPRA) recasting.
1.2365	X32CrMoV3-3	Heavy metal pressure injection moulds. For forging, where rapid cooling is used, e.g. with water.
1.2367 ESU	X38CrMoV5-3	For light metal injection moulds where greater resistance to thermal fatigue is required. High-performance forging dies, dies for the production of hollow and hollow-walled components.
1.2714	55NiCrMoV7	Forging dies and stamps, punch heads, extrusion pistons.
1.2782	X16CrNiSi25-20	Refractory austenitic steel with resistance to scale formation in air up to 1150 °C, for glass processing.
1.2787	X23CrNi17	Hardenable, corrosion-resistant steel. Tools for glass processing.
1.2799 ESU	X2NiCoTi12-8-8	Pressure injection tools and extreme stress nozzles. Vacuum recasting.
1.2885	X32CrMoCoV3-3-3	Press and extrusion tools for heavy metals.
1.2999 ESU	X45MoCrV5-3-1	For forging in automated lines, where good resistance to hot wear is required. It has excellent thermal conductivity. Remelted.





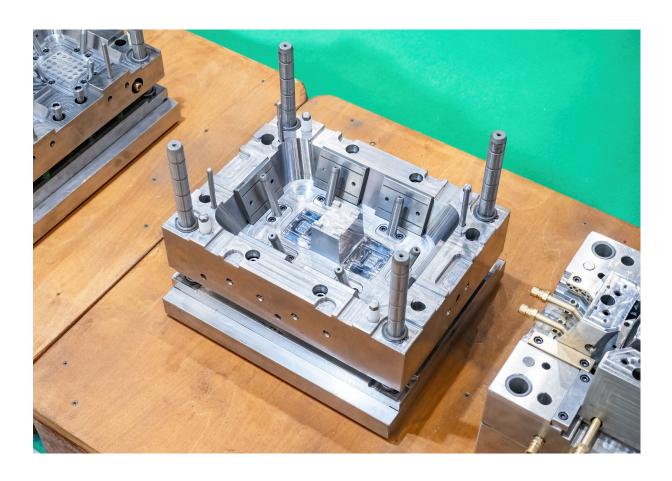




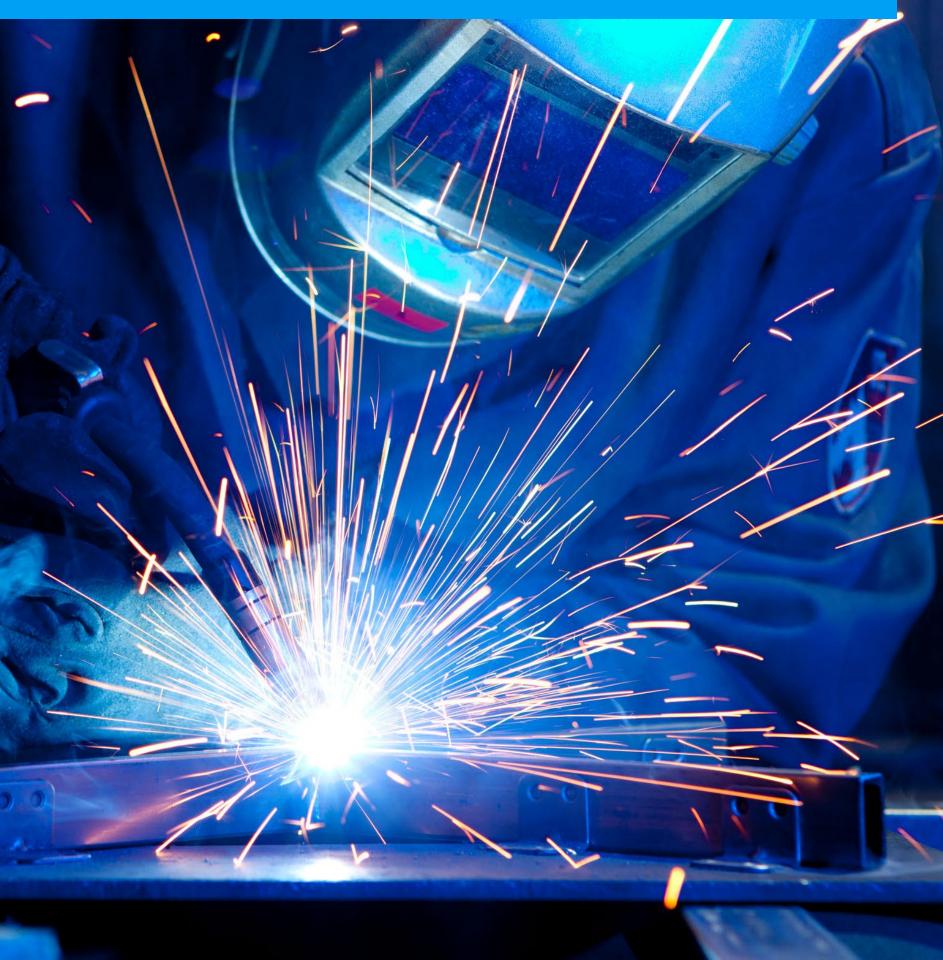
#### **Steels for Plastics Processing**

Quality	DIN	Applications
1.1730	C45u	For supports, bases and components subject to lower mechanical demands.
1.2702	~ C55u	Forged and normalised steel with a strength of approx. 650 - 800 N/mm2. Quality suitable for moulds used for prototypes.
1.2311	40CrMnMo8-6	Pre-treated steel with a strength of approx. 950–1150 N/mm², with good polishability. For thicknesses up to 400 mm.
1.2312	40CrMnMo8-6	Pre-treated steel with a strength of approx. 950–1150 N/mm2, with excellent machinability. Chemical etching and limited electroerosion.
1.2711	~ 54NiCrMoV6	Pre-treated steel with a strength of approx. 1200–1350 N/mm2, with good polishability. For high- quality moulds.
1.2738	40CrMnNiMo8-6-4	Pre-treated steel with a strength of approx. 950–1150 N/mm2, with good polishability.
SP300 (2738Mod)	~ 40CrMnNiMo8-6-4	Pre-treated steel with a hardness of 290-320HB for inserts and cavities in plastic injection moulds, compression moulds and plastic extrusion dies. Excellent hardness uniformity.
SP350 (2738ModHH)	~ 40CrMnNiMo8-6-4	Pre-treated steel with a hardness of 330-360HB for inserts and cavities in plastic injection moulds, compression moulds and plastic extrusion dies. Excellent hardness uniformity.
1.2083 SUPRA	X42Cr13	Hardened stainless steel, annealed as supplied. For inserts in moulds for corrosive plastics. Excellent polish. Material ESU.
1.2316	X38CrMo16	Stainless steel pre-treated to a strength of 950–1100 N/mm2. For moulds used in the injection moulding of corrosive plastics.
1.2085	X33CrS16	Stainless steel pre-treated to a strength of 950–1100 N/mm <sup>2</sup> . For moulds for injection moulding of corrosive plastics. Excellent machinability. Not suitable for chemical engraving or electroerosion.
1.2343/2343 SUPRA	X38CrMoV5-1	Medium-hardness tempering steel, good machinability and good polishability. For high-quality plastic moulds, nitridable. Optional remelting (SUPRA).
1.2344/2344 SUPRA	X40CrMoV5-1	Medium-hardness tempering steel, good machinability and good polishability. For high-quality plastic moulds, nitridable. Optional remelting (SUPRA)









#### **Tubular Threads**

Quality **TI E70C-6M** 

TI E71T-1M

TI 308L Cored

TI 316L Cored

Recharge





#### Standard

EN ISO 17632-A T T 42 3 M M 3 H5 AWS A5.18/ASME SFA5.18 E70C-6M

EN ISO 17632-A T 42 3 P M 1 AWS A5.20/ASME SFA5.20 E71T-1M

EN ISO 17633-A T19 12 3 L P M21/C1 2 AWS A5.22 E316LT1-1/-4

EN ISO 17633-A T19 12 3 L P M21/C1 2 AWS A5.22 E316LT1-1/-4

Regeneration of parts / Impact and abrasion / Tools / Stellite / Abrasion, erosion and corrosion / Nickel base / High alloy steels

#### Solid Threads

Quality	Standard
TI ER70S-6 G4	EN ISO 14341-A G 42 4 M21 4Si1 AWS A5.18/ASME A5.18 ER70S-6
TI ER70S-6 G46	EN ISO 14341-A G46 4 M21 3Si1 AWS A5.18/ASME A5.18 ER70S-6
TI ER100S-G	EN ISO 16834-A G62 5 M21 Mn3NiCrMo AWS A5.28 ER100S-G
TI ER110S-G	EN ISO 16834-A G69 5 M21 Mn3Ni1CrMo AWS A5.28 ER110S-G
TI CuSi3	EN ISO 24373: CuSiMn1 Cu6560
TI CuAl7	EN ISO 24373: CuAl7 Cu6100
TI CORTEN	EN ISO 14341-A G 50 4 M21 Z AWS A5.28 ER80S-G
TI ER80S-Ni1	EN ISO 14341-A G 46 5 M21 3Ni1 AWS A5.28 ER80S-Ni1
TI ER307Si	EN ISO 14343-A 18 8 Mn AWS/ASME A5.9 ER307Si

Quality	Standard
TI ER308LSi	EN ISO 14343-A 19 9 L Si AWS/ASME A5.9 ER308LSi
TI ER309LSi	EN ISO 14343-A 23 12 L Si AWS/ASME A5.9 ER309LSi
TI ER316LSi	EN ISO 14343-A 19 123 L Si AWS/ASME A5.9 ER316LSi
TI ER347Si	EN ISO 14343-A 19 9 Nb AWS/ASME A5.9 ER437
TI ER430LNb	EN ISO 14343-A 18 LNb AWS/ASME A5.9 ER430L Nb
TI ER2209	EN ISO 14343-A 22 9 3N L AWS/ASME A5.9 ER2209
TI ER5183	EN ISO 18273 AI 5183 / AIMg4.5Mn0 DIN 1732 AIMg 4.5 Mn
TI ER5356 ALMG5	EN ISO 18273 AI 5356 / AIMg5Cr(A) DIN 1732 AIMg 5



n0.7(A)

Rods	
Quality	Standard
TI ER70S-6	EN ISO 636-A: W 42 3 W3Si AWS A5.18 ER70S-6
TI ER5183	EN ISO 18273 AI 5183 / AIMg4.5Mn0.7(A) DIN 1732 AIMg 4.5 Mn
TI ER5356	EN ISO 18273 AI 5356 / AIMg5Cr(A) DIN 1732 AIMg5Cr(A)
TI ER307Si	EN ISO 14343-A 18 8 Mn AWS/ASME A5.9 ER307Si
TI ER308LSi	EN ISO 14343-A 19 9 L Si AWS/ASME A5.9 ER308LSi
TI ER309LSi	EN ISO 14343-A 23 12 L Si AWS/ASME A5.9 ER309LSi
TI ER316LSi	EN ISO 14343-A 19 123 L Si AWS/ASME A5.9 ER316LSi
TI ER347Si	EN ISO 14343-A 19 9 Nb AWS/ASME A5.9 ER437
TI ER430LNb	EN ISO 14343-A 18 LNb AWS/ASME A5.9 ER430L Nb
TI ER2209	EN ISO 14343-A 22 9 3N L AWS/ASME A5.9 ER2209

Copper Alloys

Composition	DIN ISO 5182	DIN EN 12163	DIN 17672-1	UNS
CuCr1Zr	A2/2	CW106C	2.1293	C18150
CuCo1Ni1Be	A3/1	CW104C	2.1285	C17510
CuNi2CrSi	A3/2	CW111C	2.0855	C18000

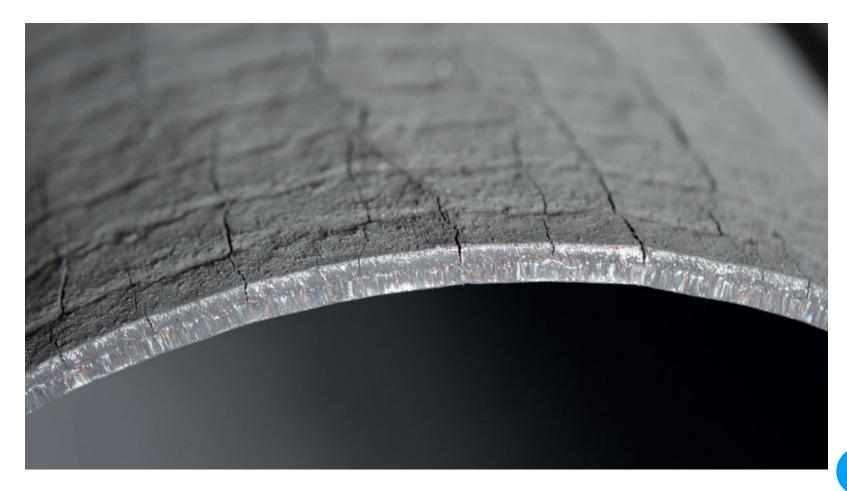






Base Plate

1500 x 3000 mm 1250 x 2500 mm 1000 x 2000 mm 2000 x 4000 mm



#### Recharged Plates tkMI 480 / 480 Bl



	Recharged Zone	Base Plate Thickness	Thickness Recharge
m	1400 x 2950 mm	3 mm	3 to 4 mm
m	1150 x 2450 mm	5 mm	3 to 4 mm
n	900 x 1950 mm	6 mm	3 to 6 mm
n	1900 x 3950 mm	8 mm	3 to 10 mm
		10 mm	3 to 17 mm
		12 mm	3 to 18 mm

### **Aluminum Catalog**

	Standards DIN 1725	DIN 1712	Standard E.N. 573-1	State of supply
Unalloyed Aluminium	3.0255	AL 99,5	1050	0 H12/H22 H14/H24 H18/H28
Alaminani	3.0205	AL 99	1200	0 H12/H22 H14/H24 H18/H28

#### Aluminum Mangane

#### Aluminum Zinc



	Standards DIN 1725	DIN 1712	Standard E.N. 573-1	State of supply
n with ese	3.0517	AlMnCu	3003	0 H12/H22 H14/H24 H18/H28
	3.0505 A	AlMn0,5Mg0,5	3105	0 H12/H22 H14/H24 H18/H28
with	Standards DIN 1725	DIN 1712	Standard E.N. 573-1	State of supply
	3.4335	AlZn4,5Mg1	3003	T4 T6/T651
	3.4365 A	IZn6MgCu1,5	3105	T6/T651 T73/T7351

### Customized solutions for each client

### **Aluminum Catalog**

	Standards DIN 1725	DIN 1712	Standard E.N. 573-1	State of supply
	3.3315	AIMg1	5005	0 H12/H22 H14/H24 H18/H28
Aluminum	3.3523	AIMg2,5	5052	0 H12/H22 H14/H24 H18/H28
with Magnesium	3.3547	AlMg4,5Mn	5083	0 H12/H22 H14/H24
Magnesium	3.3545	AlMg4Mn	5086	0 H12/H22 H14/H24 H18/H28
	3.3525	AlMg2Mn0,3	5251	0 H12/H22 H14/H24 H18/H28
	3.3535	AIMg3	5754	0 H12/H22 H14/H24 H18/H28

Aluminum wit Magnesium -Silicon

# Aluminum with Copper





	Standards DIN 1725	DIN 1712	Standard E.N. 573-1	State of supply
th	3.3206	AIMgSi0,5	6060	T4 T6
-	3.3214	AlMg1SiCu	6061	T6/T651
	3.2315	AlMgSi1	6082	T4 T6/T651
	3.0615	AIMg1SiPb	6262	Т6
	Standards		Standard	State of

Standards DIN 1725	DIN 1712	Standard E.N. 573-1	State of supply
3.1645 A	AlCu4PbMgMn	2007	T3/T351 T4/T451
3.1655	AlCuBiPb	2011	T3 T4 T6
3.1645	AlCu4MgPb	2030	T3 T4
3.1325	AlCuMg1	2017A	T4 T451
3.1355	AlCuMg2	2024	T3 T4

### **Stainless Steel Catalog**

Ferritic, Martensitic and Precipitation Hardened Stainless Steels

Numerical designation	EN 10088 n Symbolic	State of supply	Hardness HB max.	Yield Strength Rr0.2€ N/mm2 mín.	Tensile Str. Rm N/mm2 mín.	Elongation % mín.
1.4005	X12CrS13	A QT650	220 _	_ 450	máx. 730 650-850	_ 12
1.4006	X12Cr13	A QT650	220 _	_ 450	máx. 730 650-851	_ 15
1.4021	X20Cr13	A QT700 QT800	230  -	_ 500 600	máx. 760 700-850 800-950	– 13 12
1.4028	X30Cr13	A QT850	245 	_ 650	máx. 800 850-1000	_ 10
1.4034	X46Cr13	А	245	—	máx. 800	-
1.4057	X17CrNi16- 2	A QT800 QT900	295  	_ 600 700	máx. 950 800-950 900-1050	_ 14 12
1.4104	X14CrMoS17	A QT650	220 _	_ 500	máx. 730 650-850	_ 12
1.4112	X90CrMoV18	А	265	-	_	_
1.4122	X39CrMo17-1	A QT750	280 -	_ 550	máx. 900 750-950	_ 12
1.4125	X105CrMo17	A	285	_	_	-
1.4313	X3CrNiMo13-4	A QT650 QT780 QT900	320  	 520 620 800	máx. 1100 650-830 780-980 900-1100	– 15 15 12
1.4418 ×	4CrNiMo16-5-1	A QT760 QT900	320  	– 550 700	máx. 1100 760-960 900-1100	_ 16 16
1.4542 X	(5CrNiCuNb16-4	AT P800 P930 P960 P1070	360   	 520 720 790 1000	máx. 1200 800-950 930-1100 960-1160 1070-1270	- 18 16 12 10



### **Stainless Steel Catalog**

	Numerical designatio		tate of upply	Hardness HB max.	Yield Strength Rr0.2€ N/mm2 mín.	Tensile Str. Rm N/mm2 mín.	Elongation % mín. 15 20
Austen - Ferritic	1.4410	X2CrNiMoN25-7-4	Н	310	530	800	15
Stainless Steels	1.4460	X3CrNiMoN27-5-2	Н	260	460	620-880	20
	1.4462	X2CrNiMoN22-5-3	Н	270	450	650-880	25
	1.4501	X2CrNiMoCuWN25-7-	4 H	290	530	730-930	25

Ferritic and	Numerical designation		te of oply	Hardness HB max.	Yield Strength Rr0.2€ N/mm2 mín.	Tensile Str. Rm N/mm2 mín.	Elongation % mín.
Austenitic	1.4713	X10CrAl7	А	192	220	420-620	20
Refractory	1.4762	X10CrAI24	А	223	280	520-720	10
	1.4828	X15CrNiSi20-12	AT	223	230	550-750	30
Stainless Steels	1.4841	X15CrNiSi25-20	AT	223	530	550-750	30
	1.4845	X8CrNi25-21	AT	192	210	500-700	35
	1.4878	X12CrNiTi18-9	AT	215	190	500-720	40







We offer a comprehensive and specialized service

### **Stainless Steel Catalog**

Austenitic Stainless Steels

Numerical designation		State of supply	Hardness HB max.	Yield Strength Rr0.2€ N/mm2 mín.	Tensile Str. Rm N/mm2 mín.	Lengthening % mín.
1.4301	X5CrNi18-10	Н	215	190	500-700	45
1.4305	X8CrNiS18-9	Н	230	190	500-750	35
1.4306	X2CrNi19-11	Н	215	180	460-680	45
1.4307	X2CrNi18-9	Н	215	175	450-680	45
1.4310	X100CrNi18-8	Н	230	195	500-750	40
1.4401	X5CrNiMo17-12-2	Н	215	235	500-700	40
1.4404	X2CrNiMo17-12-3	Н	215	200	500-700	40
1.4429	X2CrNiMoN17-13-	3 H	250	280	580-800	40
1.4435	X2CrNiMo18-14-3	Н	215	200	500-750	40
1.4436	X3CrNiMo17-13-3	Н	215	200	500-700	40
1.4539	X1NiCrMoCu25-20	)-2 H	230	230	530-730	35
1.4541	X6CrNiTi18-10	Н	215	190	500-750	40
1.4550	X6CrNiNb18-10	Н	230	205	510-740	40
1.4571	X6CrNiMoTi17-12-	2 H	215	200	500-700	40
1.4580	X6CrNiMoNb17-12	-2 H	230	215	510-740	35
1.4919	X6CrNiMoB17-12-2	2 H	215	205	490-690	35
1.4948	X6CrNi18-10	Н	215	230	500-700	40



### Aluminum and Stainless Steel Services









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		Strip and Sheet Dimensions					Entry Coil	Installed Renewed	Supplier	Nominal Capacity		
Equipment	Tag	[mm]					[t]					
Equipment	T.	Thickness		Width		Length		Weight	Inst	Rene	Sup	
		Min	Max	Min	Max	Min	Max	Max				[tpy]
Slitting Line N°1	S1	0,3	3,3	45	1.550			30	1996	2006	Athader / Fagor	40.000
Slitting Line N°2	S2	0,4	5,0	20	1.550			30	2020		Faspar	40.000
Cut-to-length Line N°2	C2	0,4	3,0	400	1.500	500	4.000	15	1989	2006	Novastilmec / Fagor	17.000
Cut-to-length Line N°3	C3	0,4	1,5	200	660	300	3.000	5	1997		Athader	6.000
Scotch Brite Line	SA	0,4	3,0	500	1.550			20	2006	2011	Demis / Siemens	12.000
Polishing & Scotch Brite Line	ES	0,4	2,0	400	1.550			15	1995		Imeas / VAI	3.750



			Strip and	Sheet Di							
Product	[mm]							(g]	Grades	Finishes	
FIUUULI	Thick	iness	Width		Length		Unit Weight		uraues	I II IISI IES	
	Min	Мах	Min	Max	Min	Max	Min	Max			
Coils											
Standard Coils	0,4	5,0		1.250 & 500			1.000	25.000	304, 304L, 304DDQ, 316, 316L, 409,436,439,441	2B, BA,Grinding finish, duplo finish, scocth brite finish,	
Non-standard coils	0,4	5,0	20	1.500			200	25.000			
Sheets									Other grades and	mirror polished,	
Standard Sheets	0,4	3,0		1.250 & 500	2.000	3.000	800	2500	aluminum upon request	patterned	
Non-standard sheets	0,4	3,0	100	1.500	300	4.000	400	1500			





# thyssenkrupp Materials Ibérica

Thank you very much for your attention and trust

