



THE GLOBAL
RESPONSE
TO YOUR
INDUSTRIAL
CHALLENGES

The SF group brings together professionalism, experience, technical means and human commitment to respond to your needs.

tool materials



STEELS & ALUMINUMS
FOR TOOLS

WHERE EVERYTHING BEGINS



SEBASTIAN FUSTEL
Quality Moulds & Products

STEEL AND ALUMINIUM CATALOG

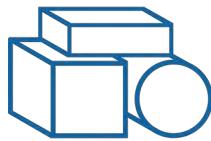


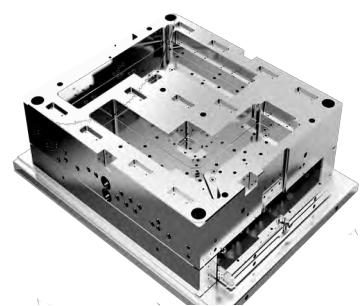
QUALITY AND SERVICE SINCE 1965



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MATERIALS

	
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Pre-finished flat Steel plates.....21
Finished flat Steel plates.....32

for everything you need



- MATERIALS

Forged / Rolled / Round Steel

**1.1730 - 1.2312 - 1.2311 - 1.2738 - 1.2738 HH
1.2711 - 1.2714 - 1.2085 - 1.2083 - 1.2343
1.2344 - 1.2080 - 1.2379 - 1.2767 - 1.2842**



Aluminium 5083 - 7075

- CUT TO SIZE

We have materials in stock and a large park of saws to guarantee a fast and efficient service.



- MILLING AND SQUARING

Machining section in the same warehouse that allows you to optimize time, costs and work coordination.



- GROUND

From large plates to low-volume parts (inserts, sliders, etc)



- EYEBOLTS

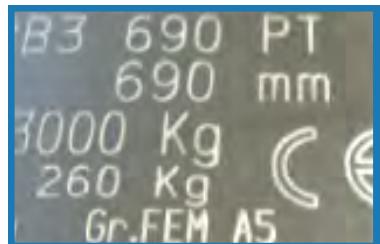
The threaded for eyebolts are made in metric and position specified by the customer.



- SPECIAL ENGRAVINGS

Micro-percussion / Machined / Laser

Marked for traceability, mould, part, customer reference number, plate weight, position, cooling connections, customer logo, etc.



Chemical composition
(Typical chemical analysis at %)

C	Si	Mn
0,42/0,50	0,15/0,40	0,60/0,80

Steel properties

Supply states

Estado de suministro

Physical properties
coefficient of thermal expansion

Thermal conductivity

Soft annealing

Stress relief annealing

Hardening

Tool steel with hard core and a hard surface.

Mould plates for plastic moulds, injection molding and dies.
Hand tools, agricultural, etc

Soft annealing max. 207 HB.

$10^{-6} \cdot m$ $m \cdot k$	20-100°C	20-200°C	20-300°C	20-400°C
	12,5	13,0	13,6	14,1

W $m \cdot k$	20°C	300°C
	44,9	41,6

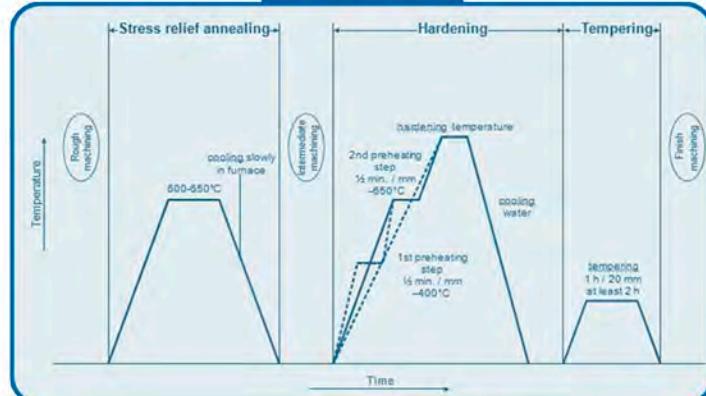
Temperature	Cooling	Hardness
680-710°C	oven	max. 207 HB

Temperature	Cooling
600-650°C	oven

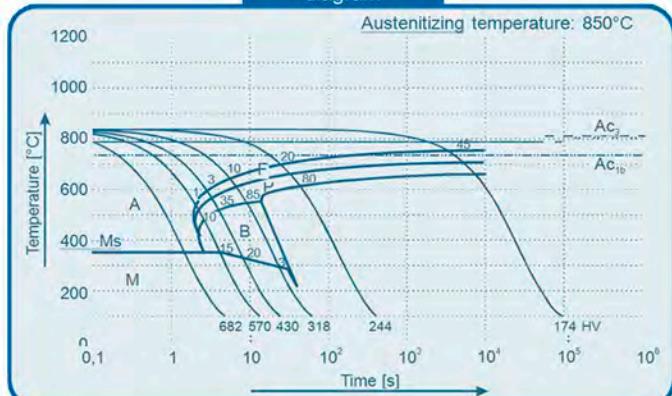
Temperature	Cooling
800-850°C	water

Tempering
see diagram

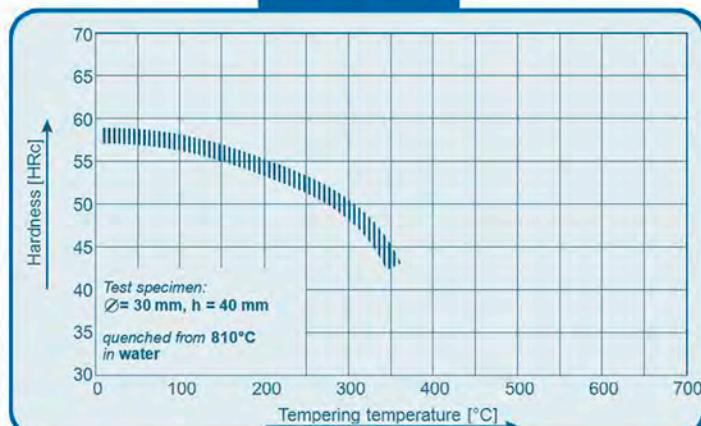
1.1730
Thermal
cycle diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition
(Typical chemical analysis at %)

C	Mn	Cr	Mo	S
0,40	1,50	1,90	0,20	0,05

Steel properties

Plastic injection mould steel normally supplied in a quenched and tempered state. Polishable. Excellent machining.

Applications

Plastic injection moulds, mould holders and dies for plastic compression, hydro-forming, etc.

Supply state

Quenched and Tempered, 950 - 1100 N/

Physical properties
Coefficient of thermal expansion

$\left[\frac{10^{-6} \cdot \text{m}}{\text{m} \cdot \text{K}} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
	12,3	12,9	13,3	13,5

$\left[\frac{\text{W}}{\text{m} \cdot \text{K}} \right]$	20°C	350°C
	39,6	39,3

Thermal treatment

Soft annealing

Temperature
710-740°C

Cooling
oven

Hardness
máx 235 HB

Stress relief annealing

Temperature
500-550°C

Cooling
oven

Hardening

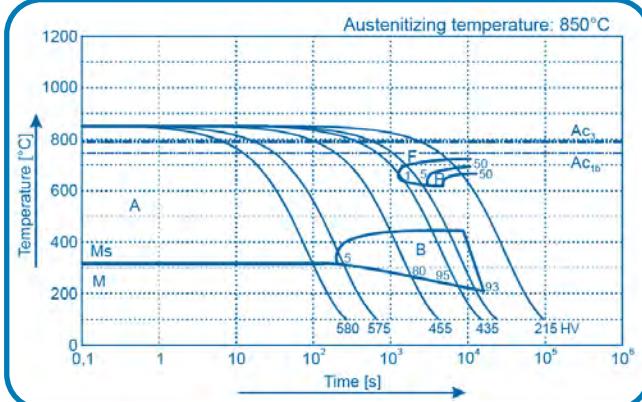
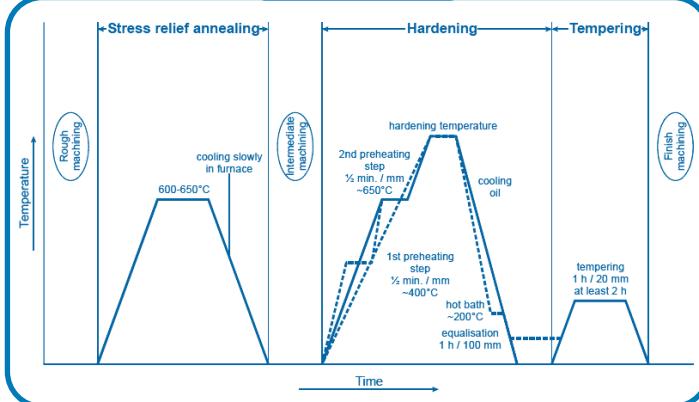
Temperature
830-870°C

Cooling
oil/hot bath 180-220°C

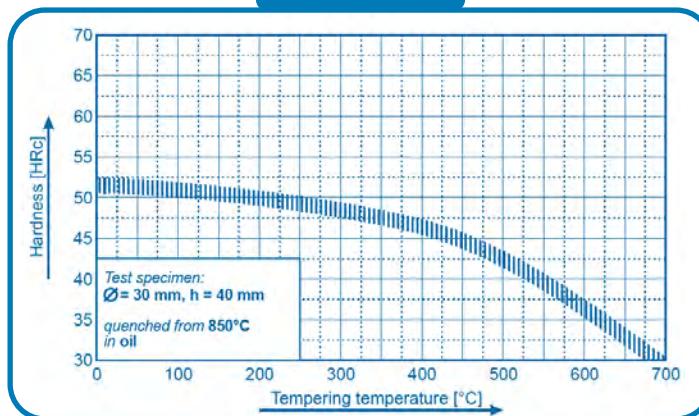
Tempering
see diagram

1.2312
Thermal cycle
diagram

Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition
(Typical chemical analysis at %)

C	Mn	Cr	Mo
0,40	1,50	1,90	0,20

Steel properties

Steel for plastic injection moulds, normally supplied in a quenched and tempered condition.

Good machining, better polished compared with 1.2312

Ideal for plastic injection moulds.

Quenched and Tempered., 950-1100N/mm²

$\left[\frac{10^{-6} \cdot m}{m \cdot k} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
	12,1	12,7	13,2	13,6

$\left[\frac{W}{m \cdot k} \right]$	20°C	300°C
	39,6	39,2

Temperature
710-740°C
Cooling
oven

Hardness
max. 235 HB

Temperature
500-550°C
Cooling
oven

Temperature
830-870°C
Cooling
oil, hot bath 180-220°C

Tempering
see diagram

Applications

Supply states

Physical properties
coefficient of thermal expansion

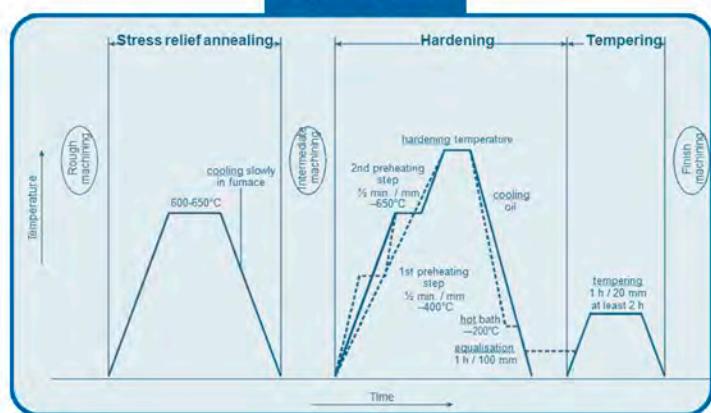
Thermal conductivity

Soft annealing

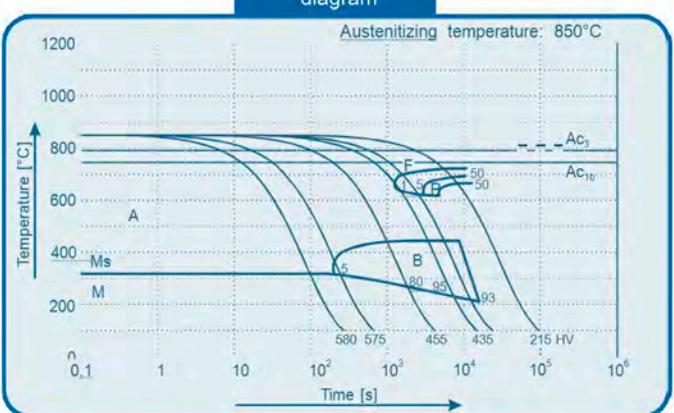
Stress relief annealing

Hardening

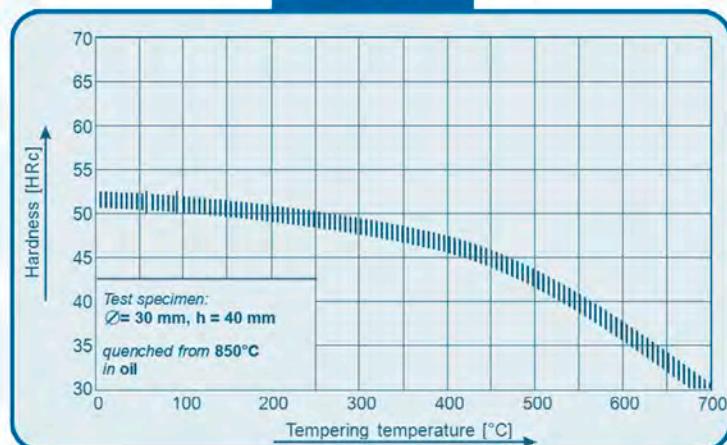
1.2311
Thermal
cycle diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition (Typical chemical analysis at %)

C	Mn	Cr	Ni	Mo
0,40	1,50	1,90	1,00	0,20

Steel properties

Steel for plastic injection moulds, with low sulphide, which usually is supplied in a treated state..

Good machining, better polished compared with 1.2312.
the addition of nickel provides more uniform hardness in large thicknesses. (> 420 mm.).

Applications

Ideal for plastic injection moulds subjected to high stress in the core.

Supply states

Quenched and Tempered, 950-1100 N/mm²

Physical properties coefficient of thermal expansion

$\frac{10^{-6} \cdot m}{m \cdot k}$	20-100°C	20-200°C	20-300°C	20-400°C
	12,8	12,5	13,1	13,3

Thermal conductivity

$\frac{W}{m \cdot k}$	20°C	300°C
	39,5	39,1

Soft annealing

Temperature
710-740°C

Cooling
oven

Hardness
max. 330 HB

Stress relief annealing

Temperature
500-550°C

Cooling
oven

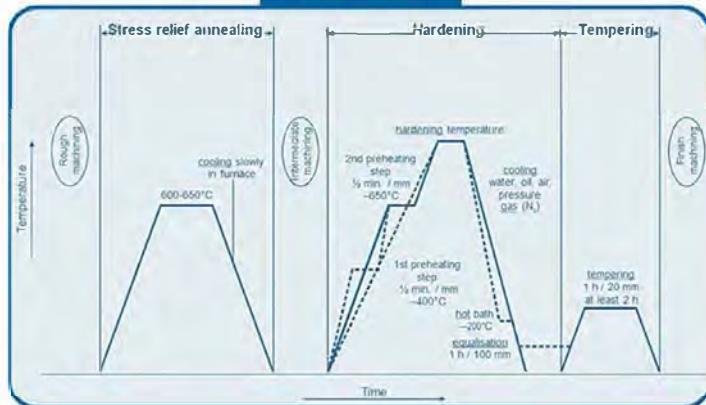
Hardening

Temperature
840-870°C

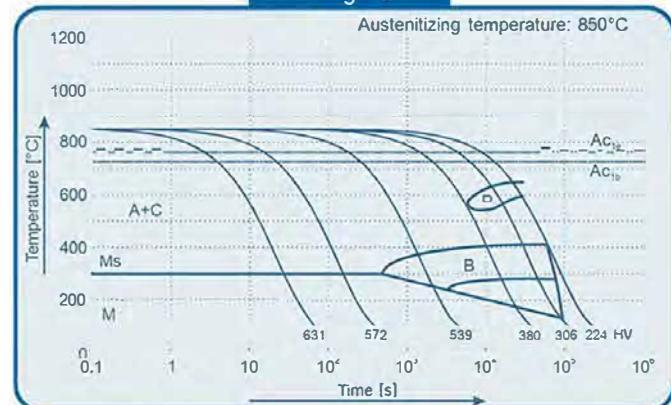
Cooling
oil, hot bath 180-220°C

Tempering
See diagram

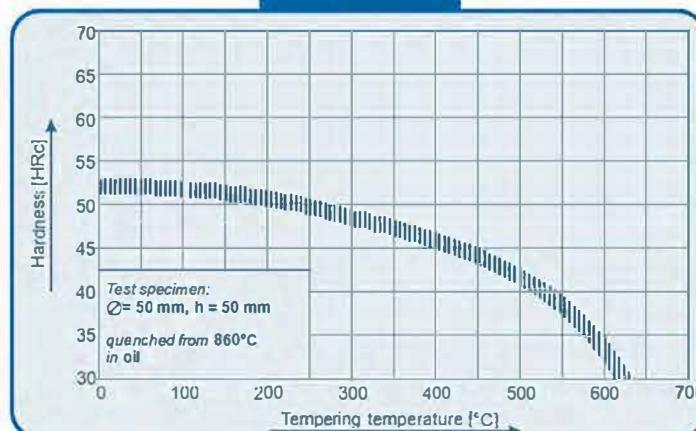
1.2738
Thermal
cycle diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition
(Typical chemical analysis at %)

C	Mn	Cr	Ni	Mo
0,40	1,50	1,90	0,20	0,20

Steel properties

Steel with low carbon. It's weldability and conductivity are very good. It's micropurity and microstructure are very homogeneous, with excellent results for polishing and photoengraving..

Applications

It's used for plastic injection moulds of large dimensions for thickness up to 1000 mm.

Supply states

Quenched and Tempered, 36 ~ 40 Hrc

Physical properties
coefficient of thermal expansion

$[10^{-6} \cdot m]$ $m \cdot k$	$20-100^\circ C$ 11,8	$20-200^\circ C$ 12,5	$20-300^\circ C$ 13,1	$20-400^\circ C$ 13,3
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Thermal conductivity

$[W]$ $m \cdot k$	$20^\circ C$ 39,5	$300^\circ C$ 39,1
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Soft annealing

Temperature

Cooling

Hardness

Stress relief annealing

Temperature

oven

max. 360 HB

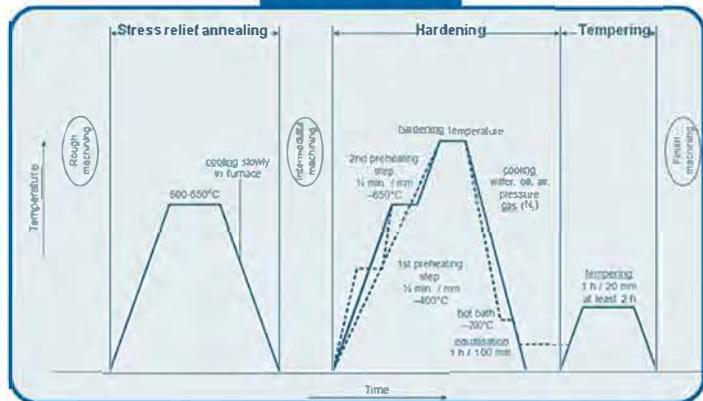
Hardening

Temperature

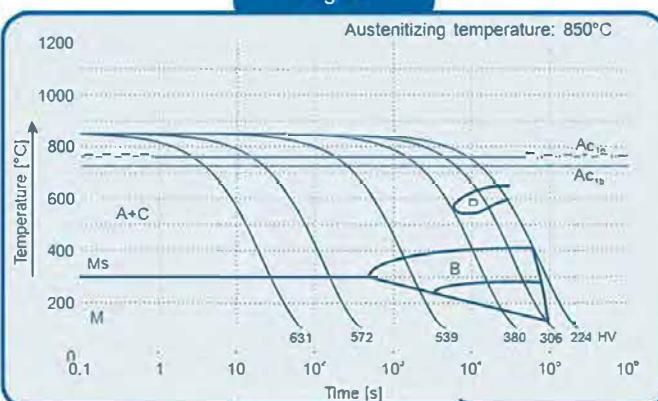
oven

Tempering

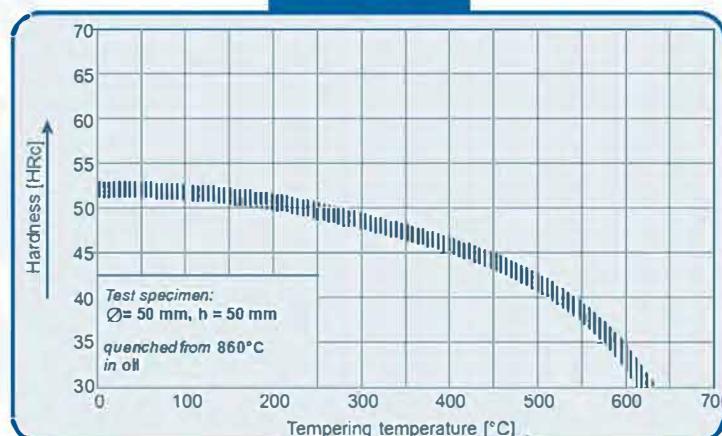
1.2738HH
Thermal cycle diagram



Continuous cooling transformation diagram



Tempering diagram



Chemical composition
(Typical chemical analysis at %)

C	Cr	Mo	Ni	V	Mn
0,56	0,70	0,30	1,75	0,75	0,70

Steel properties

Steel tool with nickel for dies and moulds, with excellent toughness and good properties obtained by hardening similar: 1.2714

Applications

Plastic injection moulds unchlorinated, with greater mechanical demands and wastage.

Dies for plastic extrusion unchlorinated and blow moulds..

Supply states

quenched and tempered, 1100-1350 N/mm²

Physical properties
coefficient of thermal expansion

$[10^{-6} \cdot m]$ $m \cdot k$	20-100°C	20-200°C	20-300°C	20-400°C
	12,3	13,4	14,1	14,4

Thermal conductivity

$[W]$ $m \cdot k$	20°C	350°C	700°C
	35,9	38,2	34,8

Soft annealing

Temperature
650-700°C

Cooling
oven

Hardness
max. 400 HB

Stress relief annealing

Temperature
600-650°C

Cooling
oven

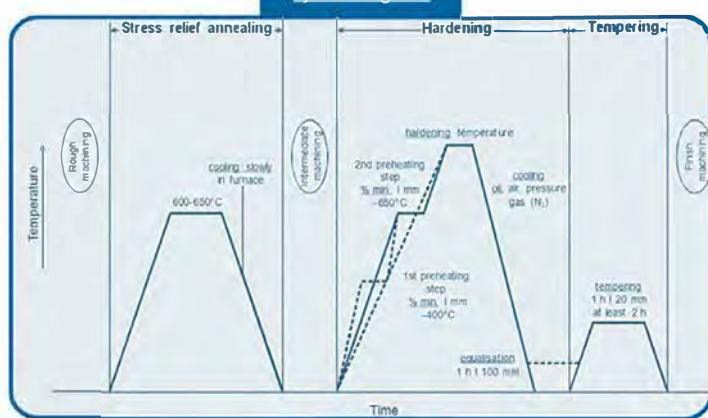
Hardening

Temperature
840-870°C

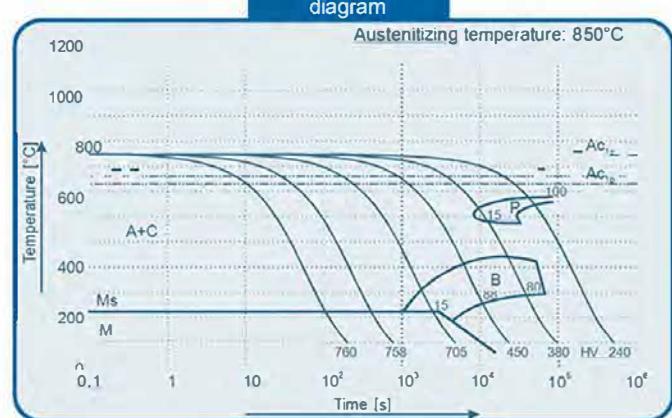
oil, pressurized gas (N₂), air

Tempering
see diagram

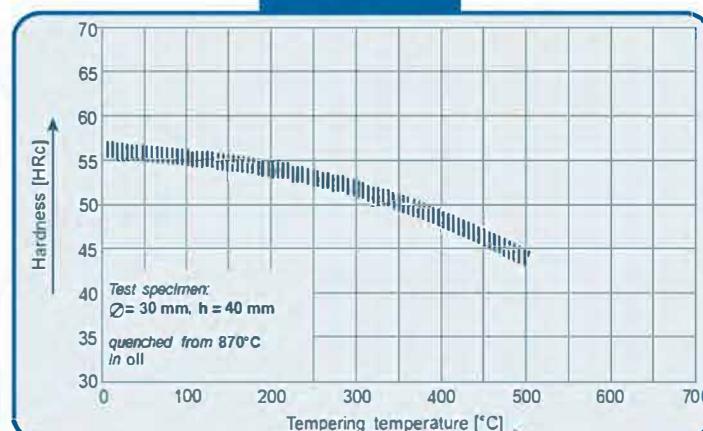
1.2711
Thermal
cycle diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition (Typical chemical analysis at %)

C	Cr	Mo	Ni	V
0,55	1,10	0,50	1,70	0,10

Steel properties

Nickel alloy steel for dies and moulds, with excellent toughness, good mechanical properties obtained by hardening

Applications

Forging dies, extrusion dies, punches, hot shear blades, die holders, support plates, etc.

Supply state

Physical properties

Coefficient of thermal expansion

$\left[\frac{10^{-6} \cdot \text{m}}{\text{m} \cdot \text{K}} \right]$	20-100°C	20-300°C	20-500°C	20-600°C
	12,3	13,4	14,1	14,4

$\left[\frac{\text{W}}{\text{m} \cdot \text{K}} \right]$	20°C	350°C	700°C
	35,9	38,2	34,8

Thermal treatment

Soft annealing

Temperature 650-700°C

Cooling oven

Hardness máx 410 HB

Stress relief annealing

Temperature 600-650°C

Cooling oven

Hardening

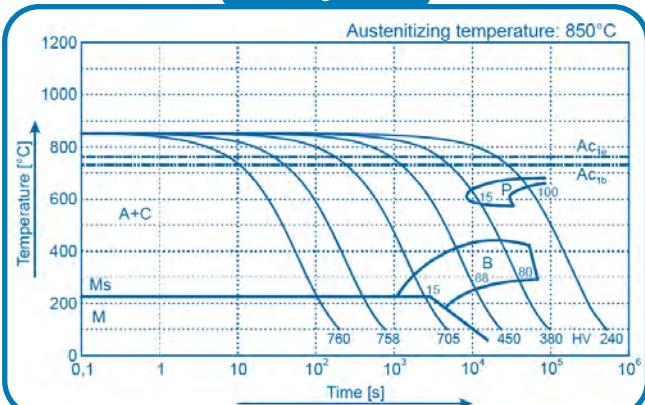
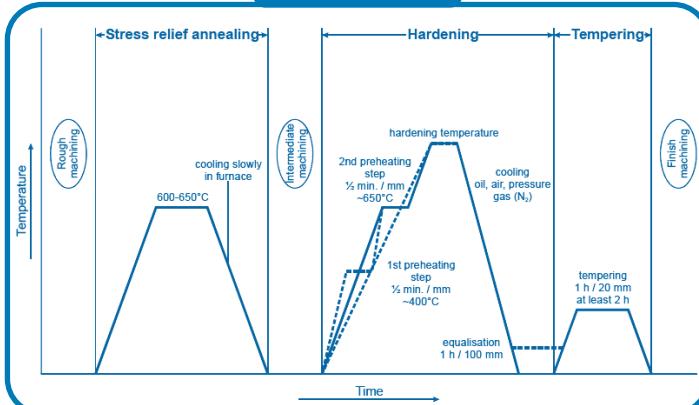
Temperature 840-890°C

Cooling oil/gas press (N2)/air

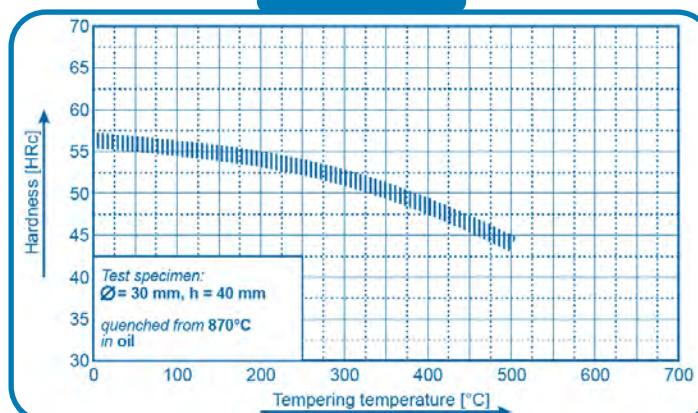
Tempering see diagram

1.2714
Thermal cycle
diagram

Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition (Typical chemical analysis at %)

C	Cr	Ni	S
0,33	16,00	0,50	0,05

Steel properties

Stainless steel with high chrome content. Excellent machining.
Not suitable for chemical etching and EDM.

Applications

Injection moulds for corrosive plastics.

Supply state

Annealed máx 330 HB

Physical properties Coefficient of thermal expansion

$\left[\frac{10^{-6} \cdot m}{m \cdot K} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
	12,3	12,9	13,3	13,5

$\left[\frac{W}{m \cdot K} \right]$	20°C	350°C
	39,6	39,3

Thermal treatment

Soft annealing

Temperature
850-880°C

Cooling
oven

Hardness
máx 330 HB

Stress relief annealing

Temperature
500-550°C

Cooling
oven

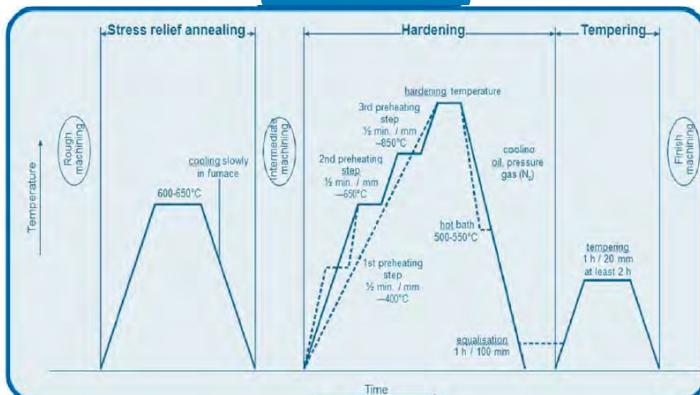
Hardening

Temperature
1000-1050°C

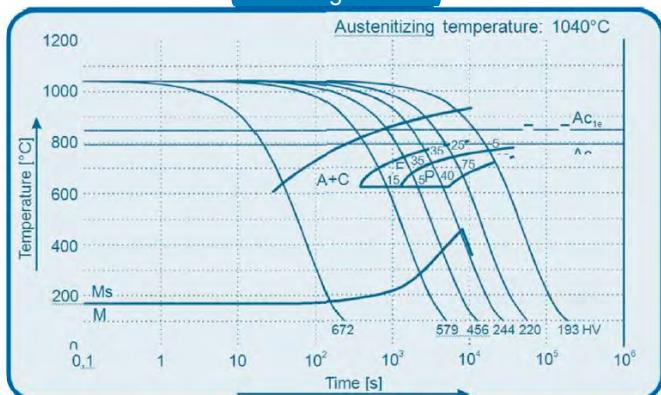
Cooling
oil/hot bath 500-550°C

Tempering
see diagram

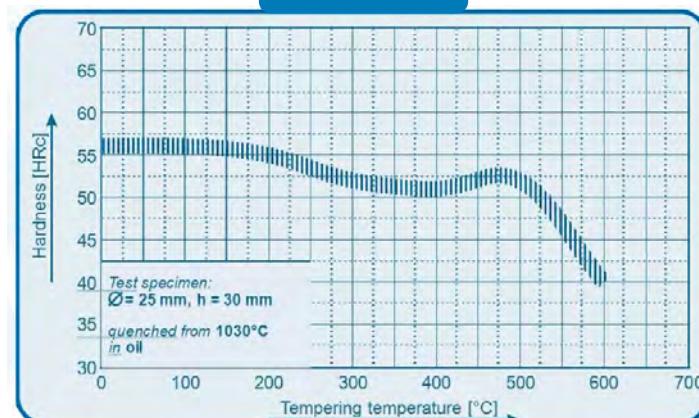
1.2085
Thermal cycle
diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition
(Typical chemical analysis at %)

C	Si	Mn	Cr	V
0,38	0,90	0,5	13,6	0,30

Steel properties

Steel tools with high content in chrome, corrosion resistant and good polishing.

Applications

Moulds for glass and plastic injection, molding areas and inserts for corrosive plastic polymers.

Supply states

annealing: 241 HB.

Physical properties
coefficient of thermal expansion

$\frac{10^{-6} \cdot m}{m \cdot k}$	20-100°C	20-200°C	20-300°C	20-400°C
	10,5	10,09	11,3	11,6

Thermal conductivity

$\frac{W}{m \cdot k}$	20°C	300°C	700°C
	24,6	25,3	26,2

Soft annealing

Temperature
760-800°C

Cooling
oven

Hardness
max. 235 HB

Stress relief annealing

Temperature
600-650°C

Cooling
oven

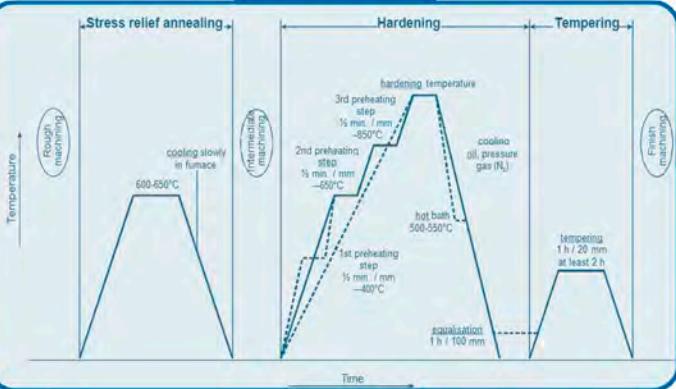
Hardening

Temperature
1000-1050°C

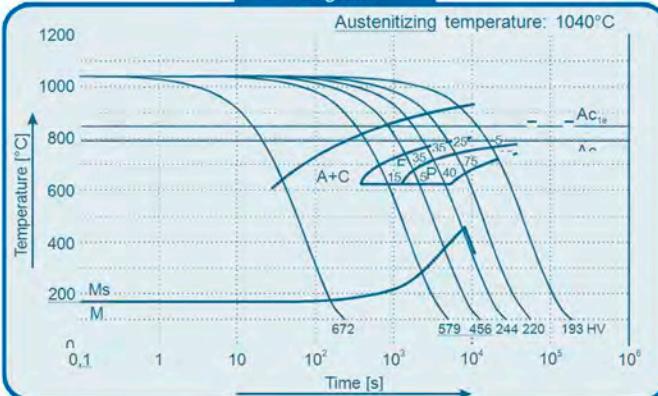
Cooling

Tempering
see diagram

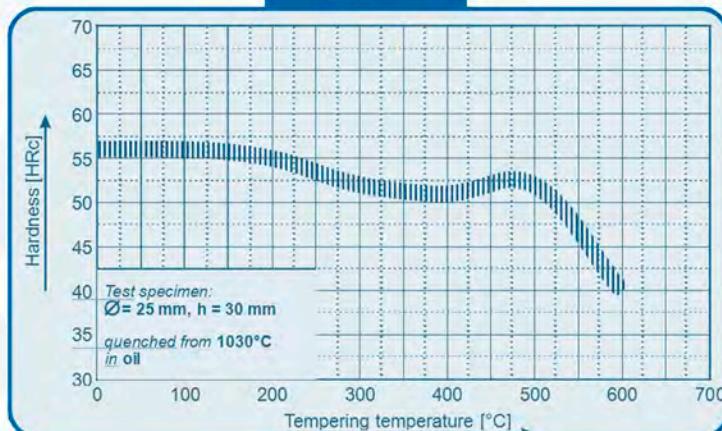
1.2083
Thermal cycle diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition (Typical chemical analysis at %)

C	Si	Cr	Mo	V
0,37	1,00	5,30	1,30	0,40

Steel properties

Hot work steel with high resistance and thermal stability, with high resistance to thermal shock and good thermal conductivity.
Also available with ESR processing for property enhancement.

Applications

Moulds for Die Casting, hot forming, extrusion, forging dies, cylinders and components for plastic processing, etc.

Supply state

Annealed máx 229 HB

Physical properties Coefficient of thermal expansion

$\left[\frac{10^{-6} \cdot \text{m}}{\text{m} \cdot \text{K}} \right]$	20-100°C	20-300°C	20-500°C	20-700°C
	11,4	12,4	13,1	13,3

$\left[\frac{\text{W}}{\text{m} \cdot \text{K}} \right]$	20°C	350°C	700°C
	25,3	27,6	30,5

Thermal treatment

Soft annealing

Temperature
750-790°C

Cooling
oven

Hardness
máx 229 HB

Stress relief annealing

Temperature
600-650°C

Cooling
oven

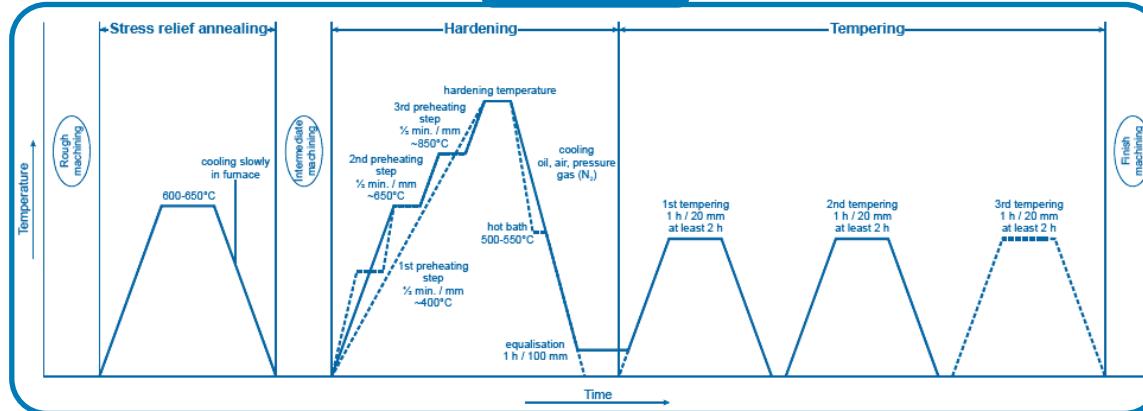
Hardening

Temperature
1000-1050°C

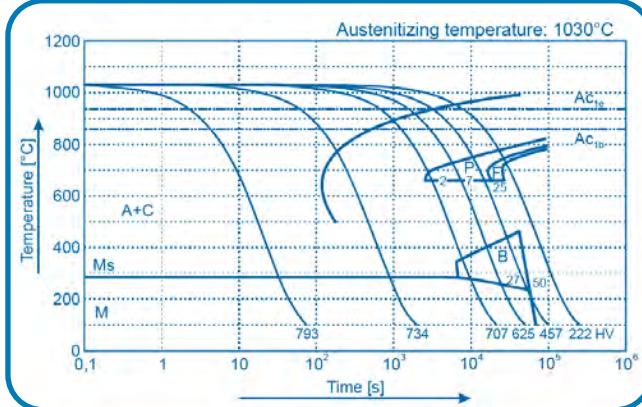
Cooling
oil/gas press.(N₂)/air/
hot bath 500-550°C

Tempering
see diagram

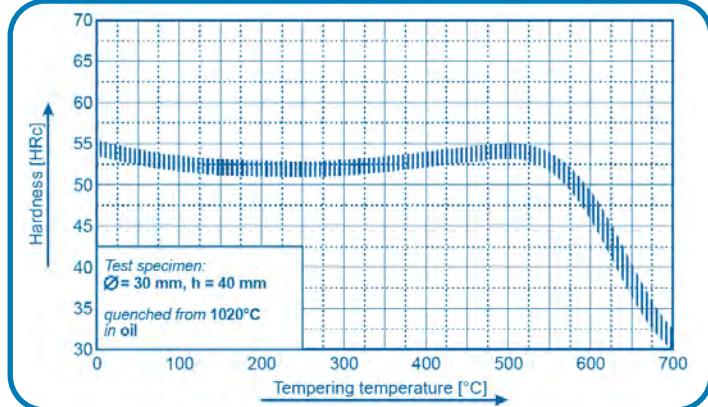
1.2343
Thermal cycle
diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition
(Typical chemical analysis at %)

C	Cr	Mo	V
0,40	5,30	1,40	1,00

Steel properties

High strength steel at elevated temperatures, high hot wear resistance , good toughness and thermal conductivity.

Applications

Material for hot forming tools, extrusion tools, forging dies, injection tools to overpressure, cylinders and components for plastic processing, hot cutting blades, also available with improved processing esr properties.

Supply states

Annealing up to 229HB.

Physical properties
coefficient of thermal expansion

$10^{-6} \cdot m$ $m \cdot k$	20-100°C	20-200°C	20-300°C	20-400°C
	10,8	12,3	13,0	13,5

Thermal conductivity

W $m \cdot k$	20°C	350°C	700°C
	25,6	28,4	29,4

Soft annealing

Temperature	Cooling	Hardness
750-800°C	oven	max. 248 HB

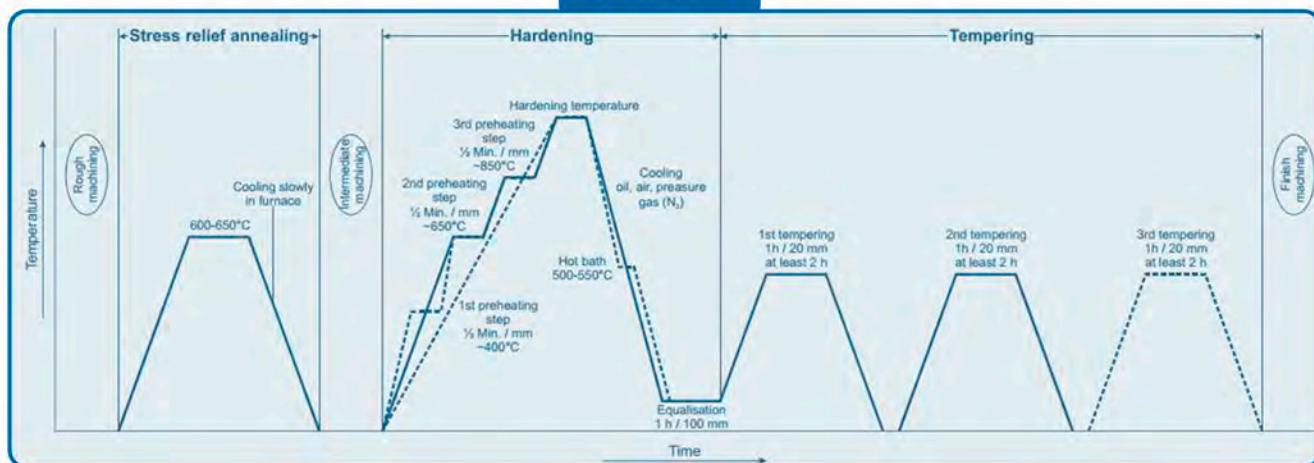
Stress relief annealing

Temperature	Cooling
600-650°C	oven

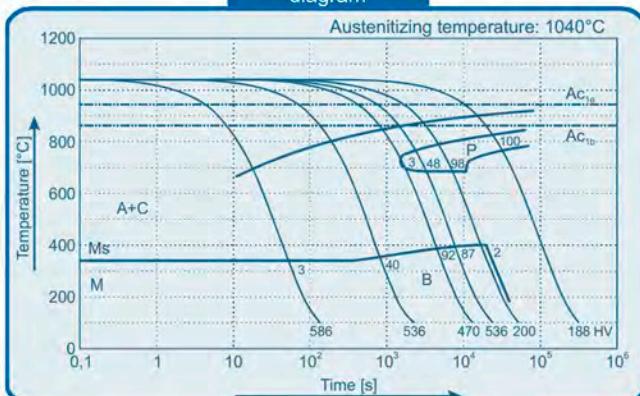
Hardening

Temperature	Cooling	Tempering
1020-1060°C	oil, pressurized gas (N ₂), salt bath 500-550°C	See diagram

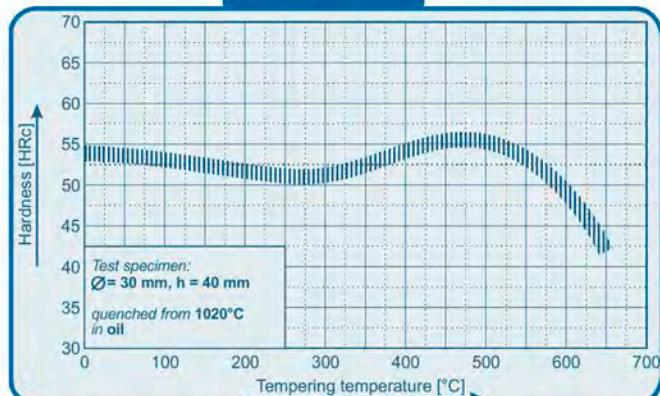
1.2344
Thermal
cycle diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition
(Typical chemical analysis at %)

C	Cr
2,10	12,00

Steel properties

High chrome alloy steel, high resistance to abrasive and adhesive wear due to the high volume of hard carbides in the steel matrix, medium toughness, dimensionally stable, high compressive strength.
No secondary hardening.

Applications

High performance punching and cutting tools, blades.

Supply state

Annealed max 248 HB

Physical properties

Coefficient of thermal expansion

$\left[\frac{10^{-6} \text{ m}}{\text{m K}} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
	10,8	11,6	12,3	12,5

$\left[\frac{\text{W}}{\text{m K}} \right]$	20°C	350°C	700°C
	16,7	20,5	24,1

Thermal treatment

Soft annealing

Cooling oven

Hardness
máx 248 HB

Stress relief annealing

Temperature

800-840°C

Cooling oven

Hardening

Temperature

600-650°C

Cooling oven

Temperature

950-980°C

Cooling

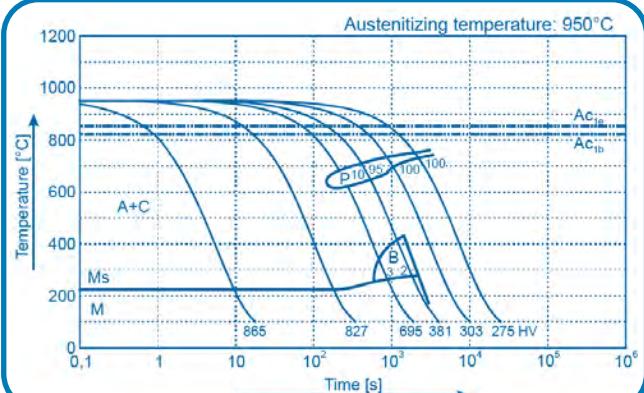
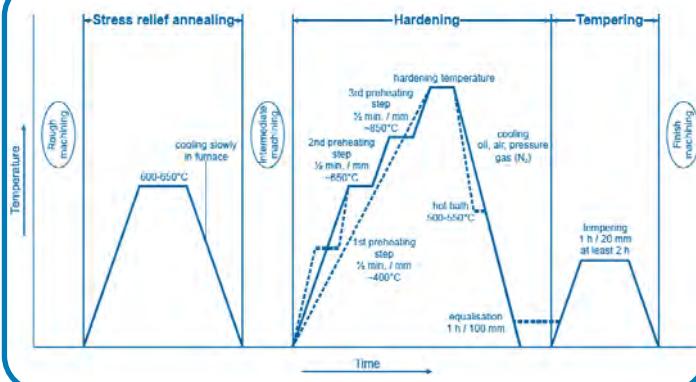
oil/gas press (N2)/air/
hot bath 500-550°C

Tempering

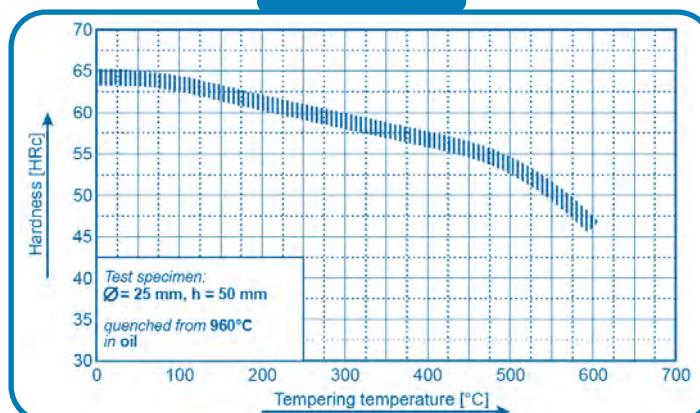
see diagram

1.2080
Thermal cycle
diagram

Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition (Typical chemical analysis at %)

C	Cr	Mo	V
1,55	12,00	0,80	0,90

Steel properties

Ledeburitic steel with high chromium alloy, high resistance to abrasive and adhesive wear due to the high volume of hard carbides in the steel matrix, good toughness, dimensionally stable, high resistance to compression. Excellent PVD / CVD and nitriding.

Applications

Moulds for corrosive plastics, cutting dies, circular blades, rollers, cutting tools, punching, stamping, etc.

Supply state

Annealed max 255 HB

Physical properties

Coefficient of thermal expansion

$\left[\frac{10^{-6} \text{ m}}{\text{m K}} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
	10,5	11,5	11,9	13,0

$\left[\frac{\text{W}}{\text{m K}} \right]$	20°C	350°C	700°C
	16,7	20,5	24,2

Thermal treatment

Soft annealing

Temperature
820-850°C

Cooling
oven

Hardness
max 255 HB

Stress relief annealing

Temperature
600-650°C

Cooling
oven

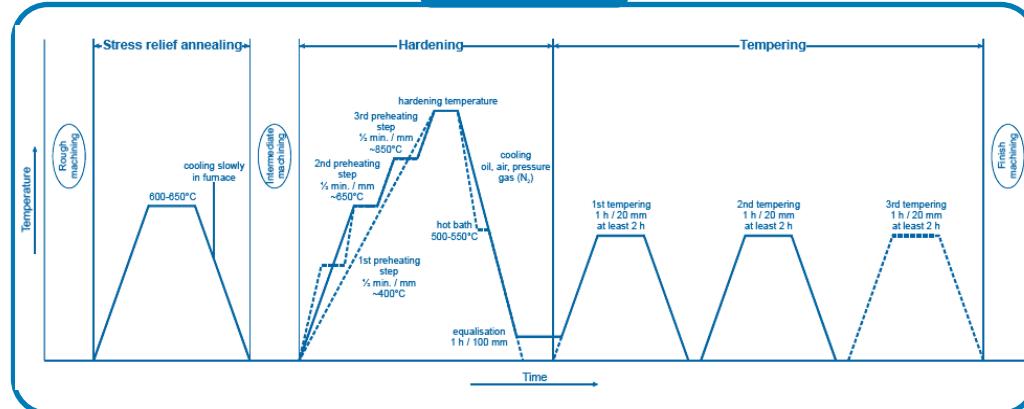
Tempering
see diagram

Hardening

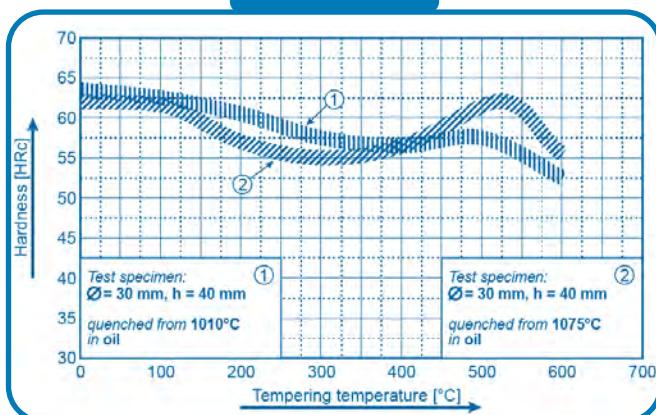
Temperature
(1) 1000-1030°C
(2) 1040-1080°C

Cooling
oil/gas press (N2)/air/
hot bath 500-550°C

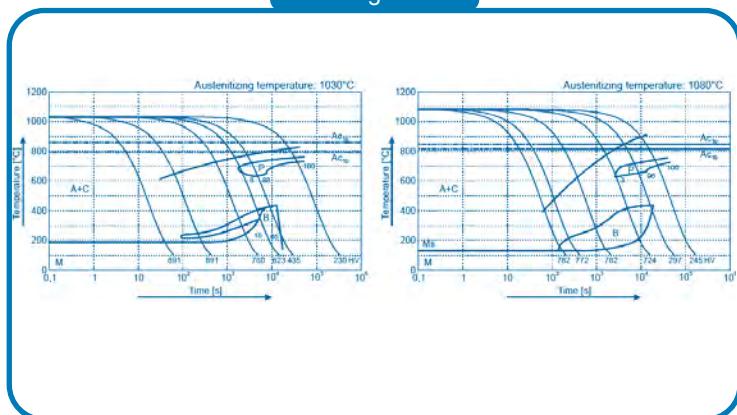
1.2379
Thermal cycle
diagram



Tempering
diagram



Continuous
cooling
transformation
diagram



Chemical composition
(Typical chemical analysis at %)

C	Mo	Cr	Ni
0,45	0,25	1,40	4,00

Steel properties

Nickel alloy steel, good hardening, good polishing, excellent toughness.

Applications

Plastic moulds, shredder blades, scrap and billet blades, bending and cutting tools etc.

Supply state

Physical properties

Coefficient of thermal expansion

$\left[\frac{10^{-6} \cdot m}{m \cdot K} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
	11,5	12,3	12,8	13,1
$\left[\frac{W}{m \cdot K} \right]$	20°C	150°C	300°C	
	32,9	34,6	35,1	

Thermal treatment

Soft annealing

Temperature
610-650°C

Cooling
oven

Hardness
máx 285 HB

Stress relief annealing

Temperature
600-650°C

Cooling
oven

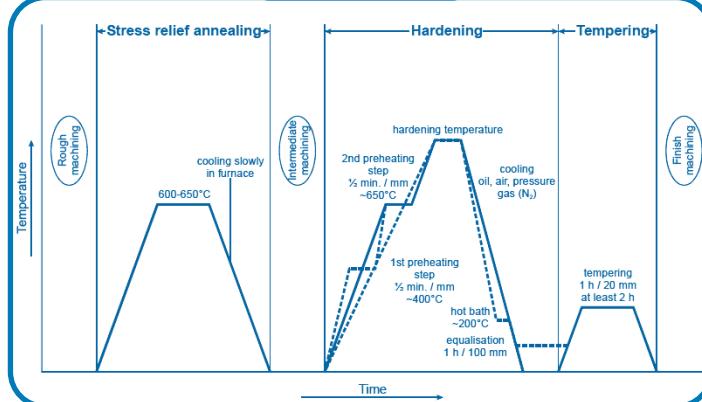
Hardening

Temperature
840-870°C

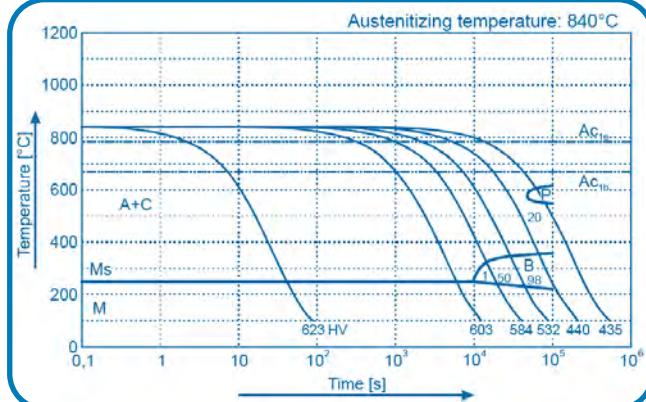
Cooling
oil/gas press (N2)/air/
hot bath 180-220°C

Tempering
see diagram

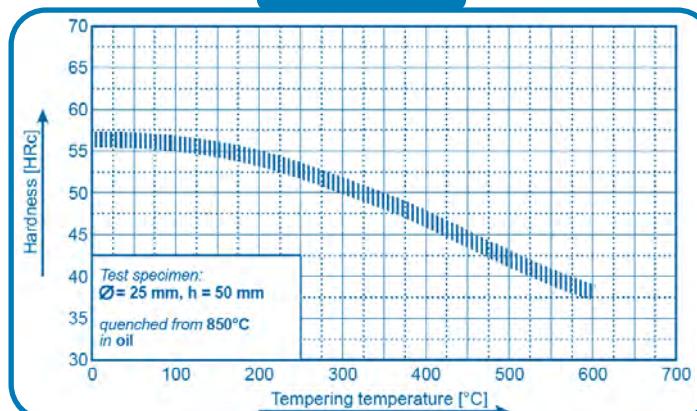
1.2767
Thermal cycle
diagram



Continuous
cooling
transformation
diagram



Tempering
diagram



Chemical composition
 (Typical chemical analysis at %)

C	Mn	Cr	V
0,90	2,00	0,40	0,10

Steel properties

Nearly 1% carbon medium alloy cold work steel, high hardening capacity, for quenched limited, dimensionally stable, compressive strength.
 Similar to AISI 02

Applications

Molds and dies for cutting, stamping, drawing, measuring tools, guide plates, ejectors, blades.

Supply state

Annealed máx. 229 HB

Physical properties
 Coefficient of thermal expansion

$\left[\frac{10^{-6} \cdot m}{m \cdot K} \right]$	20-100°C	20-200°C	20-300°C	20-400°C
	12,2	13,2	13,8	14,4

$\left[\frac{W}{m \cdot K} \right]$	20°C	350°C	700°C
	32,8	32,0	31,5

Thermal treatment

Soft annealing

Temperature
700-730°C

Cooling
oven

Hardness
máx 229 HB

Stress relief annealing

Temperature
600-650°C

Cooling
oven

Hardening

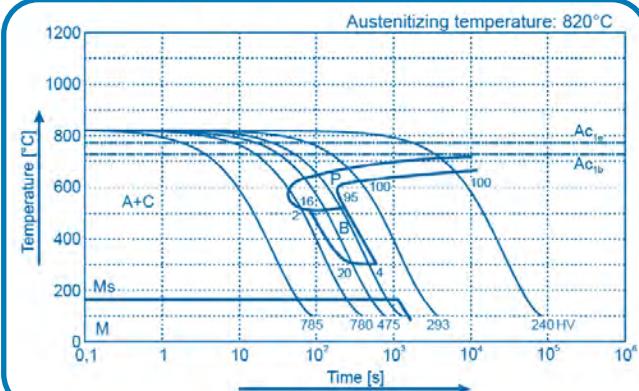
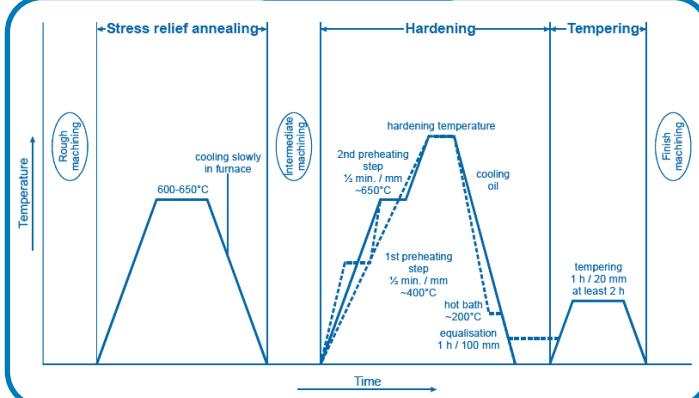
Temperature
780-820°C

Cooling
oil/hot bath 180-220°C

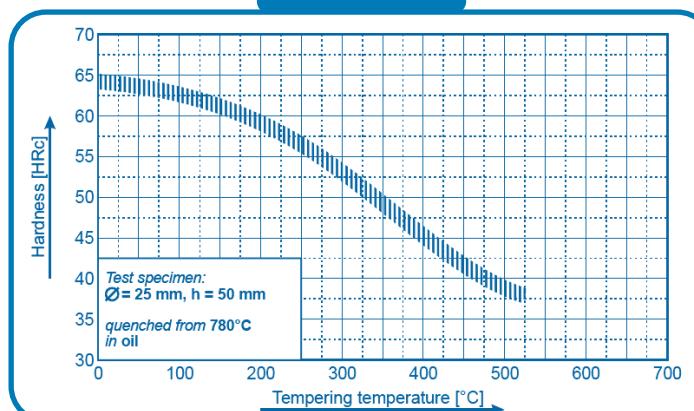
Tempering
see diagram

1.2842
 Thermal cycle
 diagram

Continuous
 cooling
 transformation
 diagram



Tempering
 diagram





ALUMINUM 5083 (Al Mg Mn)

High alloy corrosion resistance, even to sea water.

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ti+Zr	Al
0,40	0,40	0,10	0,40-1,00	4,00-4,90	0,05-0,25	0,25	0,15	0,20	resto

Technical details

state	Specific gravity	Tensile strength	Elastic limit
H-111	2,70 gr/cm ³	30 Kg/mm ²	15 Kg/mm ²

Elongation	Melting range	Elastic modulus	Brinell hardness
18%	580-645°C	71.000 N/mm ²	70-75 HB

Applications

Thermoformed moulds, moulds for footwear industry, plastic blow moulds, moulds and dies for general industry, tools, caliber and commonly used in the construction of industrial machinery.

ALUMINUM 7075 (Al Zn Mg Cu)

It's one of the alloys with higher characteristics within aluminums.

The development has made possible to use the alloys in areas hitherto reserved for steels.

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Ti+Zr	Al
0,40	0,50	1,20-2,00	0,30	2,90-2,90	0,18-0,28	5,10-6,10	0,20	0,25	rest

Características técnicas

state	Specific gravity	Tensile strength	Elastic limit
T-651	2,80 gr/cm ³	45-53 Kg/mm ²	38-45 Kg/mm ²

Elongation	Melting range	Elastic modulus	Brinell hardness
10%	477-635°C	72.000 N/mm ²	150-160 HB

Applications

Moulds for plastic injection, blow moulds, deep vacuum stamping moulds, plastic extrusion moulds, support for all kind of moulds. It's applied to weapons, aircraft and in the automobile industry, construction of machinery, injected rubber moulds, etc

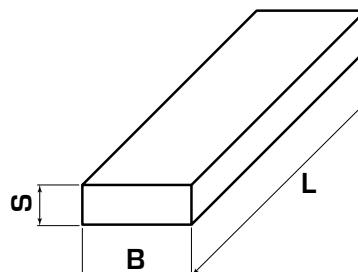
Placas pre-acabadas

Pre-finished flat steel plates



R0294

Placa pre-acabada - P2311
Pre-finished flat steel plate - P2311



Color identificativo
Colour symbol

Descripción:

Material: 1.2311
Tolerancias: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0294-06-0001

Description:

Material: 1.2311
Tolerances: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
Example of purchasing order: R0294-06-0001

Código Code	L	B	S											
			6.4	8.4	10.4	12.4	15.4	16.4	20.4	25.4	30.4	32.4	40.4	50.4
R0294-06	1030	12.4				0001								
R0294-06	1030	16.4						0002						
R0294-06	1030	20.4		0003	0004	0005	0006	0012	0007					
R0294-06	1030	25.4		0008	0009	0010	0011		0013	0014				
R0294-06	1030	30.4		0015	0016	0017	0018	0019	0020	0021				
R0294-06	1030	32.4	0022	0023	0024	0025	0026	0027	0028	0029		0030		
R0294-06	1030	40.4	0031	0032	0033	0034	0035	0036	0037	0038	0039			
R0294-06	1030	50.4	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	
R0294-06	1030	60.4	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062
R0294-06	1030	63.4	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074
R0294-06	1030	70.4	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086
R0294-06	1030	80.4	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098
R0294-06	1030	100.4	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110
R0294-06	1030	125.4		0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	0121
R0294-06	1030	150.4		0122	0123	0124	0125	0126	0127	0128	0129	0130	0131	0132
R0294-06	1030	175.4		0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143
R0294-06	1030	200.4		0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154
R0294-06	1030	220.4			0155	0156	0157	0158	0159	0160	0161	0162	0163	0164
R0294-06	1030	250.4			0165	0166	0167	0168	0169	0170	0171	0172	0173	0174
R0294-06	1030	300.4			0175	0176	0177	0178	0179	0180	0181	0182	0183	0184

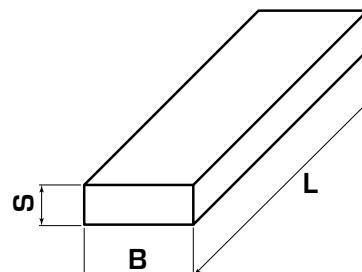
Placas pre-acabadas

Pre-finished flat steel plates



R0295

Placa pre-acabada - P2312
Pre-finished flat steel plate - P2312



Color identificativo
Colour symbol

Descripción:

Material: 1.2312
Tolerancias: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0295-06-0001

Description:

Material: 1.2312
Tolerances: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
Example of purchasing order: R0295-06-0001

Código Code	L	B	S																		
			4.4	5.4	6.4	8.4	10.4	12.4	15.4	16.4	20.4	25.4	30.4	32.4	40.4	50.4	60.4	70.4	80.4	90.4	100.4
R0295-06	1030	10.4					0001														
R0295-06	1030	12.4						0002													
R0295-06	1030	15.4							0003												
R0295-06	1030	16.4							0004												
R0295-06	1030	20.4		0005	0006	0007	0008	0009		0010											
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R0295-06	1030	30.4		0019	0020	0021	0022	0023	0024	0025	0026	0027									
R0295-06	1030	32.4		0028	0029	0030	0031	0032	0033	0034	0035		0036								
R0295-06	1030	40.4	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047		0048						
R0295-06	1030	50.4	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062					
R0295-06	1030	60.4	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077				
R0295-06	1030	63.4	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091					
R0295-06	1030	70.4	0092	0093	0094	0095	0096	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107			
R0295-06	1030	80.4	0108	0109	0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	0121	0122	0123	0124		
R0295-06	1030	100.4	0125	0126	0127	0128	0129	0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141		0142
R0295-06	1030	120.4																			0143
R0295-06	1030	125.4		0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158			
R0295-06	1030	150.4		0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176
R0295-06	1030	175.4		0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	
R0295-06	1030	180.4		0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	
R0295-06	1030	200.4		0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	
R0295-06	1030	220.4				0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	0242	
R0295-06	1030	250.4				0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255			
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R0295-06	1030	400.4				0269	0270	0271	0272	0273	0274	0275	0276	0277	0278	0279					
R0295-06	1030	500.4				0280	0281	0282	0283	0284	0285	0286	0287	0288	0289	0290					

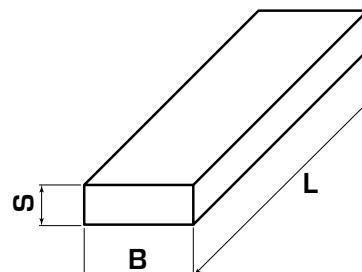
Placas pre-acabadas

Pre-finished flat steel plates



R0293

Placa pre-acabada - P2343
Pre-finished flat steel plate - P2343



Color identificativo
Colour symbol

Descripción:

Material: 1.2343
Tolerancias: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0293-06-0001

Description:

Material: 1.2343
Tolerances: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
Example of purchasing order: R0293-06-0001

Código Code	L	B	S																			
			4.4	5.4	6.4	8.4	10.4	12.4	15.4	16.4	20.4	25.4	30.4	32.4	40.4	50.4	60.4	63.4	70.4	80.4	100.4	
R0293-06	1030	10.4	0001	0002	0003	0004	0005															
R0293-06	1030	12.4	0006	0007	0008	0009	0010	0011														
R0293-06	1030	15.4	0012	0013	0014	0015	0016	0017	0018													
R0293-06	1030	16.4	0019	0020	0021	0022	0023	0024		0025												
R0293-06	1030	20.4	0026	0027	0028	0029	0030	0031	0032	0033	0034											
R0293-06	1030	25.4	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044										
R0293-06	1030	30.4	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055									
R0293-06	1030	32.4	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067								
R0293-06	1030	40.4	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080							
R0293-06	1030	50.4	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094						
R0293-06	1030	60.4	0095	0096	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109					
R0293-06	1030	63.4	0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	0121	0122	0123	0124	0125				
R0293-06	1030	70.4	0126	0127	0128	0129	0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140		0141			
R0293-06	1030	80.4	0142	0143	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159		
R0293-06	1030	100.4	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177	0178	
R0293-06	1030	125.4					0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194
R0293-06	1030	150.4					0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210
R0293-06	1030	160.4					0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226
R0293-06	1030	200.4					0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	0242
R0293-06	1030	250.4					0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254				
R0293-06	1030	300.4					0255	0256	0257	0258	0259	0260	0261	0262	0263	0264	0265	0266				

Placas pre-acabadas

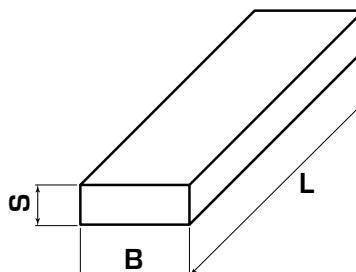
Pre-finished flat steel plates



R0290

Placa pre-acabada - P2379

Pre-finished flat steel plate - P2379



Color identificativo Colour symbol

Descripción:

Material: 1 2379

Tolerancias | 500: S +0.25 mm B +0.4 mm I +25 mm

Tolerancias | 1030: S ±0.25 mm, B ±0.4 mm, L ±20 mm

Para las secciones cuadradas S y B ± 0.25 mm.

Ejemplo de pedido: B0290-06-0001

Description:

Material: 1 2379

Tolerances | 500: S ±0.25 mm B ±0.4 mm I ±0.0 mm

Tolerances | 1030: S ± 0.25 mm, B ± 0.4 mm, L ± 20 mm

Tolerances E1030. S +0.25 mm, B +0.25 mm

Example of purchasing order: B0290-06-0001

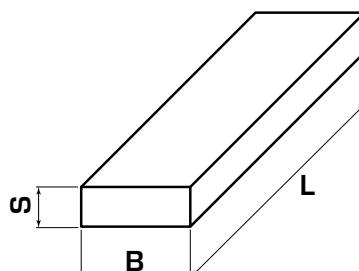
Placas pre-acabadas

Pre-finished flat steel plates



R0297

Placas pre-acabadas - P2085
Pre-finished flat steel plate - P2085



Color identificativo
Colour symbol

Descripción:

Material: 1.2085
Tolerancias: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0297-06-0001

Description:

Material: 1.2085
Tolerances: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
Example of purchasing order: R0297-06-0001

Código Code	L	B	S									
			8.4	10.4	15.4	20.4	25.4	30.4	40.4	50.4	60.4	80.4
R0297-06	1030	20.4	0001	0002	0003	0004						
R0297-06	1030	25.4	0005	0006	0007	0008	0009					
R0297-06	1030	30.4	0010	0011	0012	0013	0014	0015				
R0297-06	1030	40.4	0016	0017	0018	0019	0020	0021	0022			
R0297-06	1030	50.4	0023	0024	0025	0026	0027	0028	0029	0030		
R0297-06	1030	60.4	0031	0032	0033	0034	0035	0036	0037	0038	0039	
R0297-06	1030	80.4	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049
R0297-06	1030	100.4	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059
R0297-06	1030	125.4	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069
R0297-06	1030	150.4	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079
R0297-06	1030	200.4	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089
R0297-06	1030	250.4	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099
R0297-06	1030	300.4	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109

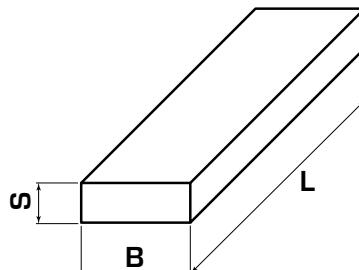
Placas pre-acabadas

Pre-finished flat steel plates



R0630

Placa pre-acabada - P2842
Pre-finished flat steel plate - P2842



Color identificativo
Colour symbol

Descripción:

Materiales: 1.2842
Tolerancias L500: S +0.25 mm, B +0.4 mm, L +20mm
Tolerancias L1030: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Para placas rectificadas S +0.25 mm, B +20 mm, L +20 mm
Ejemplo de pedido: R0630-06-0001

Description:

Material: 1.2842
Tollerances L500: S +0.25 mm, B +0.4 mm, L +20 mm
Tollerances L1030: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
For ground plates S +0.25 mm, B +20 mm, L +20 mm
Example of purchasing order: R0630-06-0001

Código Code	L	B	S																			
			2.4	3.4	4.4	5.4	6.4	8.4	10.4	12.4	15.4	16.4	18.4	20.4	25.4	30.4	32.4	40.4	50.4	60.4	63.4	80.4
R0630-06	500	8.4						0001														
R0630-06	500	10.4	0003	0005	0007	0009	0011	0013	0015													
R0630-06	500	12.4	0017	0019	0021	0023	0025	0027	0029	0031												
R0630-06	500	15.4	0033	0035	0037	0039	0041	0043	0045	0047	0049											
R0630-06	500	16.4										0051										
R0630-06	500	18.4										0053										
R0630-06	500	20.4	0055	0057	0059	0061	0063	0065	0067	0069	0071	0073	0075									
R0630-06	500	25.4	0077	0079	0081	0083	0085	0087	0089	0091	0093	0095	0097	0099								
R0630-06	500	30.4	0101	0103	0105	0107	0109	0111	0113	0115	0117	0119	0121	0123	0125							
R0630-06	500	32.4	0127	0129	0131	0133	0135	0137	0139	0141	0143	0145	0147	0149	0151	0153						
R0630-06	500	35.4	0155	0157	0159	0161	0163	0165	0167	0169	0171	0173	0175	0177	0179							
R0630-06	500	40.4	0181	0183	0185	0187	0189	0191	0193	0195	0197	0199	0201	0203	0205	0207	0209					
R0630-06	500	50.4	0211	0213	0215	0217	0219	0221	0223	0225	0227	0229	0231	0233	0235	0237	0239	0241				
R0630-06	500	60.4	0243	0245	0247	0249	0251	0253	0255	0257	0259	0261	0263	0265	0267	0269	0271	0273	0275			
R0630-06	500	63.4	0277	0279	0281	0283	0285	0287	0289	0291	0293	0295	0297	0299	0301	0303	0305	0307	0309			
R0630-06	500	70.4	0311	0313	0315	0317	0319	0321	0323	0325	0327	0329	0331	0333	0335	0337	0339	0341	0343			
R0630-06	500	80.4	0345	0347	0349	0351	0353	0355	0357	0359	0361	0363	0365	0367	0369	0371	0373	0375	0377	0379	0381	
R0630-06	500	100.4	0383	0385	0387	0389	0391	0393	0395	0397	0399	0401	0403	0405	0407	0409	0411	0413	0415	0417	0419	0421
R0630-06	500	120.4	0423	0425	0427	0429	0431	0433	0435	0437	0439	0441	0443	0445	0447	0449	0451	0453	0455	0457	0459	0461
R0630-06	500	125.4	0463	0465	0467	0469	0471	0473	0475	0477	0479	0481	0483	0485	0487	0489	0491	0493	0495	0497	0499	0501
R0630-06	500	150.4	0503	0505	0507	0509	0511	0513	0515	0517	0519	0521	0523	0525	0527	0529	0531	0533	0535	0537	0539	0541
R0630-06	500	160.4	0543	0545	0547	0549	0551	0553	0555	0557	0559	0561	0563	0565	0567	0569	0571	0573	0575	0577	0579	0581
R0630-06	500	175.4	0583	0585	0587	0589	0591	0593	0595	0597	0599	0601	0603	0605	0607	0609	0611	0613	0615	0617	0619	0621
R0630-06	500	180.4	0623	0625	0627	0629	0631	0633	0635	0637	0639	0641	0643	0645	0647	0649	0651	0653	0655	0657	0659	0661
R0630-06	500	200.4	0663	0665	0667	0669	0671	0673	0675	0677	0679	0681	0683	0685	0687	0689	0691	0693	0695	0697	0699	0701
R0630-06	500	250.4	0703	0705	0707	0709	0711	0713	0715	0717	0719	0721	0723	0725	0727	0729	0731	0733	0735	0737	0739	0741
R0630-06	500	300.4	0743	0745	0747	0749	0751	0753	0755	0757	0759	0761	0763	0765	0767	0769	0771	0773				

Placas en acero rectificado

Precision ground plates

Código Code	L	B	S							
			8.2	10.4	12.4	15.4	20.4	25.4	30.4	40.4
R0630-06	500	500	0775	0777	0779	0781	0783	0785	0787	0789

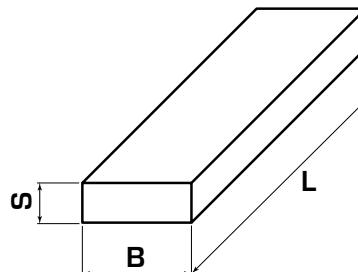
Placas pre-acabadas

Pre-finished flat steel plates



R0630

Placa pre-acabada - P2842
Pre-finished flat steel plate - P2842



Color identificativo
Colour symbol

Descripción:

Material: 1.2842
Tolerancias L500: S +0.25 mm, B +0.4 mm, L +20 mm
Tolerancias L1030: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Para placas rectificadas S +0.25 mm, B +20 mm, L +20 mm
Ejemplo de pedido: R0630-06-0001

Description:

Material: 1.2842
Tolerances L500: S +0.25 mm, B +0.4 mm, L +20 mm
Tolerances L1030: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
For ground plates S +0.25 mm, B +20 mm, L +20 mm
Example of purchasing order: R0630-06-0001

Código Code	L	B	S																			
			2.4	3.4	4.4	5.4	6.4	8.4	10.4	12.4	15.4	16.4	18.4	20.4	25.4	30.4	32.4	40.4	50.4	60.4	63.4	80.4
R0630-06	1030	8.4						0002														
R0630-06	1030	10.4	0004	0006	0008	0010	0012	0014	0016													
R0630-06	1030	12.4	0018	0020	0022	0024	0026	0028	0030	0032												
R0630-06	1030	15.4	0034	0036	0038	0040	0042	0044	0046	0048	0050											
R0630-06	1030	16.4									0052											
R0630-06	1030	18.4									0054											
R0630-06	1030	20.4	0056	0058	0060	0062	0064	0066	0068	0070	0072	0074	0076									
R0630-06	1030	25.4	0078	0080	0082	0084	0086	0088	0090	0092	0094	0096	0098	0100								
R0630-06	1030	30.4	0102	0104	0106	0108	0110	0112	0114	0116	0118	0120	0122	0124	0126							
R0630-06	1030	32.4	0128	0130	0132	0134	0136	0138	0140	0142	0144	0146	0148	0150	0152	0154						
R0630-06	1030	35.4	0156	0158	0160	0162	0164	0166	0168	0170	0172	0174	0176	0178	0180							
R0630-06	1030	40.4	0182	0184	0186	0188	0190	0192	0194	0196	0198	0200	0202	0204	0206	0208	0210					
R0630-06	1030	50.4	0212	0214	0216	0218	0220	0222	0224	0226	0228	0230	0232	0234	0236	0238	0240	0242				
R0630-06	1030	60.4	0244	0246	0248	0250	0252	0254	0256	0258	0260	0262	0264	0266	0268	0270	0272	0274	0276			
R0630-06	1030	63.4	0278	0280	0282	0284	0286	0288	0290	0292	0294	0296	0298	0300	0302	0304	0306	0308	0310			
R0630-06	1030	70.4	0312	0314	0316	0318	0320	0322	0324	0326	0328	0330	0332	0334	0336	0338	0340	0342	0344			
R0630-06	1030	80.4	0346	0348	0350	0352	0354	0356	0358	0360	0362	0364	0366	0368	0370	0372	0374	0376	0378	0380	0382	
R0630-06	1030	100.4	0384	0386	0388	0390	0392	0394	0396	0398	0400	0402	0404	0406	0408	0410	0412	0414	0416	0418	0420	0422
R0630-06	1030	120.4	0424	0426	0428	0430	0432	0434	0436	0438	0440	0442	0444	0446	0448	0450	0452	0454	0456	0458	0460	0462
R0630-06	1030	125.4	0464	0466	0468	0470	0472	0474	0476	0478	0480	0482	0484	0486	0488	0490	0492	0494	0496	0498	0500	0502
R0630-06	1030	150.4	0504	0506	0508	0510	0512	0514	0516	0518	0520	0522	0524	0526	0528	0530	0532	0534	0536	0538	0540	0542
R0630-06	1030	160.4	0544	0546	0548	0550	0552	0554	0556	0558	0560	0562	0564	0566	0568	0570	0572	0574	0576	0578	0580	0582
R0630-06	1030	175.4	0584	0586	0588	0590	0592	0594	0596	0598	0600	0602	0604	0606	0608	0610	0612	0614	0616	0618	0620	0622
R0630-06	1030	180.4	0624	0626	0628	0630	0632	0634	0636	0638	0640	0642	0644	0646	0648	0650	0652	0654	0656	0658	0660	0662
R0630-06	1030	200.4	0664	0666	0668	0670	0672	0674	0676	0678	0680	0682	0684	0686	0688	0690	0692	0694	0696	0698	0700	0702
R0630-06	1030	250.4	0704	0706	0708	0710	0712	0714	0716	0718	0720	0722	0724	0726	0728	0730	0732	0734	0736	0738	0740	0742
R0630-06	1030	300.4	0744	0746	0748	0750	0752	0754	0756	0758	0760	0762	0764	0766	0768	0770	0772	0774				

Placas en acero rectificado

Precision ground plates

Código Code	L	B	S							
			8.2	10.4	12.4	15.4	20.4	25.4	30.4	40.4
R0630-06	1000	500	0776	0778	0780	0782		0786	0788	
R0630-06	1030	500					0784			0790

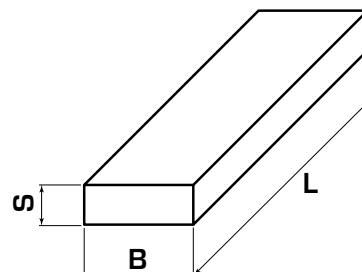
Placas pre-acabadas

Pre-finished flat steel plates



R0299

Placa pre-acabada - P0570
Pre-finished flat steel plate - P0570



Color identificativo
Colour symbol

Descripción:

Material: 1.0570
Tolerancias: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0299-06-0001

Description:

Material: 1.0570
Tolerances: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
Example of purchasing order: R0299-06-0001

Código Code	L	B	S																				
			4.4	5.4	6.4	8.4	10.4	12.4	15.4	16.4	20.4	25.4	30.4	32.4	40.4	50.4	60.4	63.4	70.4	80.4	100.4	120.4	150.4
R0299-06	1030	10.4					0001																
R0299-06	1030	12.4						0002															
R0299-06	1030	15.4							0003														
R0299-06	1030	16.4							0004														
R0299-06	1030	20.4			0005	0006	0007	0008	0009		0010												
R0299-06	1030	25.4	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020											
R0299-06	1030	30.4	0021	0022	0023	0024	0025	0026	0027		0028	0029	0030										
R0299-06	1030	32.4	0031	0032	0033	0034	0035	0036		0037	0038	0039		0040									
R0299-06	1030	40.4	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053								
R0299-06	1030	50.4	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067							
R0299-06	1030	60.4	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077		0078	0079	0080							
R0299-06	1030	63.4	0081	0082	0083	0084	0085	0086		0087	0088	0089		0090	0091	0092	0093						
R0299-06	1030	70.4	0094	0095	0096	0097	0098	0099	0100		0101	0102	0103		0104	0105	0106	0107					
R0299-06	1030	80.4	0108	0109	0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	0121	0122	0123	0124	0125			
R0299-06	1030	100.4	0126	0127	0128	0129	0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	0144		
R0299-06	1030	120.4	0145	0146	0147	0148	0149	0150	0151		0152	0153	0154		0155	0156	0157		0158	0159	0160	0161	
R0299-06	1030	125.4	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177		0178	0179		
R0299-06	1030	140.4	0180	0181	0182	0183	0184	0185	0187		0187	0188	0189		0190	0191	0192		0193	0194	0195		
R0299-06	1030	150.4	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	
R0299-06	1030	160.4	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234		
R0299-06	1030	175.4			0235	0236	0237	0238		0239	0240	0241		0242	0243	0244		0245		0246	0247		
R0299-06	1030	180.4			0248	0249	0250	0251	0252		0253	0254	0255		0256	0257	0258		0259	0260	0261		
R0299-06	1030	200.4			0262	0263	0264	0265	0266	0267	0268	0269	0270	0271	0272	0273	0274	0275	0276	0277	0278		
R0299-06	1030	250.4			0279	0280	0281	0282	0283	0284	0285	0286	0287	0288	0289	0290	0291	0292	0293	0294	0295		
R0299-06	1030	300.4			0296	0297	0298	0299	0300	0301	0302	0303	0304	0305	0306	0307	0308	0309	0310	0311	0312		
R0299-06	1030	315.4			0313	0314	0315	0316		0317	0318	0319		0320	0321	0322		0323		0324	0325		
R0299-06	1030	350.4			0326	0327	0328	0329	0330	0331	0332	0333	0334	0335	0336	0337	0338	0339	0340	0341	0342		
R0299-06	1030	400.4	0343	0344	0345	0346	0347	0348	0349	0350	0351	0352	0353	0354	0355	0356	0357	0358	0359	0360	0361		
R0299-06	1030	450.4								0362	0363		0364	0365	0366		0367		0368	0369			
R0299-06	1030	500.4					0370	0371	0372	0373	0374	0375	0376	0377	0378	0379	0380	0381	0382	0383	0384		

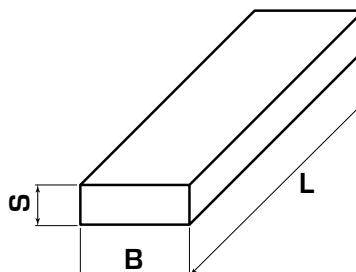
Placas pre-acabadas

Pre-finished flat steel plates



R0296

Placa pre-acabada - P2162
Pre-finished flat steel plate - P2162



Color identificativo
Colour symbol

Descripción:

Material: 1.2162
Tolerancias: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0296-06-0001

Description:

Material: 1.2162
Tolerances: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
Example of purchasing order: R029606-0001

Código Code	L	B	S															
			8.4	10.4	12.4	15.4	16.4	20.4	25.4	30.4	32.4	36.4	40.4	50.4	60.4	70.4	80.4	100.4
R0296-06	1030	15.4				0001												
R0296-06	1030	20.4	0002	0003	0004	0005	0006	0007										
R0296-06	1030	25.4	0008	0009	0010	0011	0012	0013	0014									
R0296-06	1030	30.4	0015	0016	0017	0018	0019	0020	0021	0022								
R0296-06	1030	32.4	0023	0024	0025	0026	0027	0028	0029	0030	0031							
R0296-06	1030	40.4	0032	0033	0034	0035	0036	0037	0038	0039		0040	0041					
R0296-06	1030	50.4	0042	0043	0044	0045	0046	0047	0048	0049		0050	0051	0052				
R0296-06	1030	60.4	0053	0054	0055	0056	0057	0058	0059	0060		0061	0062	0063	0064			
R0296-06	1030	70.4	0065	0066	0067	0068	0069	0070	0071	0072		0073	0074	0075	0076	0077		
R0296-06	1030	80.4	0078	0079	0080	0081	0082	0083	0084	0085		0086	0087	0088	0089		0090	
R0296-06	1030	100.4	0091	0092	0093	0094	0095	0096	0097	0098		0099	0100	0101	0102		0103	
R0296-06	1030	120.4	0104	0105	0106	0107	0108	0109	0110	0111		0112	0113	0114	0115			
R0296-06	1030	150.4	0116	0117	0118	0119	0120	0121	0122	0123		0124	0125	0126	0127			
R0296-06	1030	180.4	0128	0129	0130	0131	0132	0133	0134	0135		0136	0137	0138	0139			
R0296-06	1030	200.4	0140	0141	0142	0143	0144	0145	0146	0147		0148	0149	0150	0151			
R0296-06	1030	250.4	0152	0153	0154	0155	0156	0157	0158	0159		0160	0161	0162	0163			
R0296-06	1030	300.4	0164	0165	0166	0167	0168	0169	0170	0171		0172	0173	0174	0175			
R0296-06	1030	500.4		0176	0177	0178	0179	0180	0181	0182		0183	0184	0185	0186			

Placas pre-acabadas

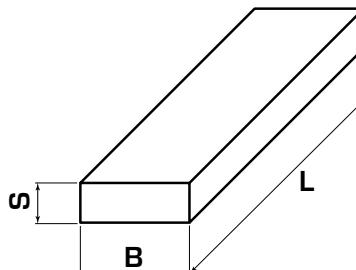
Pre-finished flat steel plates



R0292

Placa pre-acabada - P2363

Pre-finished flat steel plate - P2363



Color identificativo Colour symbol

Descripción:

Material: 1 2363

Tolerancias: S ±0,25 mm B ±0,4 mm L ±20 mm

Para las secciones cuadradas S y B +0.25 mm

Ejemplo de pedido: B0292-06-0001

Description:

Material: 1 2363

Tolerances: S ±0.25 mm B ±0.4 mm L ±20 mm

Tolerances: A +0.25 mm, B +0.4 mm,
For square section S and B ±0.25 mm

Example of purchasing order: B0292-06-0001

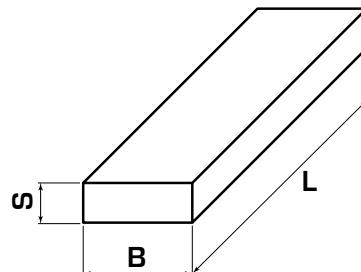
Placas pre-acabadas

Pre-finished flat steel plates



R0291

Placa pre-acabada - P2767
Pre-finished flat steel plate - P2767



Color identificativo
Colour symbol

Descripción:

Material: 1.2767
Tolerancias L1030: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Para placas rectificadas S +0.20 mm, B +5 mm, L +35 mm
Ejemplo de pedido: R0291-06-0001

Description:

Material: 1.2767
Tollerances L1030: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
For ground plates S +0.20 mm, B +5 mm, L +35 mm
Example of purchasing order: R0291-06-0001

Código Code	L	B	S																		
			4.4	5.4	6.4	8.4	10.4	12.4	15.4	16.4	20.4	25.4	30.4	32.4	40.4	50.4	60.4	63.4	70.4	80.4	90.4
R0291-06	1030	10.4	0001	0002	0003	0004	0005														
R0291-06	1030	12.4	0006	0007	0008	0009	0010	0011													
R0291-06	1030	15.4							0012												
R0291-06	1030	16.4	0013	0014	0015	0016	0017	0018	0019												
R0291-06	1030	20.4	0020	0021	0022	0023	0024	0025	0026	0027	0028										
R0291-06	1030	25.4	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038									
R0291-06	1030	30.4	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049								
R0291-06	1030	32.4	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061							
R0291-06	1030	40.4	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074						
R0291-06	1030	50.4	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088					
R0291-06	1030	60.4	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	0101	0102	0103				
R0291-06	1030	63.4	0104	0105	0106	0107	0108	0109	0110	0111	0112	0113	0114	0115	0116	0117	0118	0119			
R0291-06	1030	70.4	0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	0131	0132	0133	0134	0135	0136		
R0291-06	1030	80.4	0137	0138	0139	0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	
R0291-06	1030	90.4	0155	0156	0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173
R0291-06	1030	100.4	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192
R0291-06	1030	125.4							0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206
R0291-06	1030	150.4							0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223
R0291-06	1030	200.4							0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240
R0291-06	1030	250.4							0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255	0256	0257
R0291-06	1030	300.4							0262	0263	0264	0265	0266	0267	0268	0269	0270	0271	0272	0273	0274

Placas en acero rectificado

Precision ground plates

Código Code	L	B	S								
			10.4	12.4	15.4	20.4	25.4	30.4	40.4	50.4	
R0291-06	1000	500	0279	0280	0281	0282	0283	0284	0285	0286	

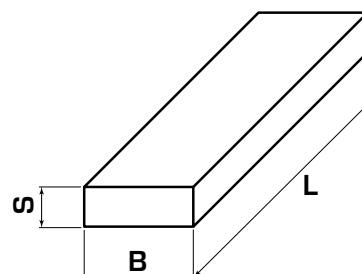
Placas pre-acabadas

Pre-finished flat steel plates



R0289

Placa pre-acabada - P2436
Pre-finished flat steel plate - P2436



Color identificativo
Colour symbol

Descripción:

Material: 1.2436
Tolerancias L500: S +0.2 mm, B +0.2 mm, L +5 mm;
Tolerancias L1030: S +0.25 mm, B +0.4 mm, L ± 20 mm;
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0289-06-0001

Description:

Material: 1.2436
Tollerances L500: S +0.2 mm, B +0.2 mm, L +5 mm;
Tollerances L1030: S +0.25 mm, B +0.4 mm, L ± 20 mm
For square section S and B +0.25 mm
Example of purchasing order: R0289-06-0001

Código Code	L	B	S													
			2.2	3.2	4.2	5.2	6.2	8.2	10.4	12.4	15.4	20.4	25.4	30.4	40.4	50.4
R0289-06	500	8.2						0001								
R0289-06	500	10.3	0003	0004	0005	0006	0007	0008								
R0289-06	500	10.4							0015							
R0289-06	500	12.4								0017						
R0289-06	500	15.3	0019	0020	0021	0022	0023	0024	0025	0026						
R0289-06	500	15.4								0035						
R0289-06	500	20.3	0038	0039	0040	0041	0042	0043	0044	0045	0046					
R0289-06	500	20.4									0056					
R0289-06	500	25.3	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067				
R0289-06	500	25.4										0079				
R0289-06	500	30.3	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091			
R0289-06	500	30.4											0104			
R0289-06	500	40.3	0119	0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130		
R0289-06	500	40.4												0144		
R0289-06	500	50.3	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	
R0289-06	500	50.4													0174	
R0289-06	500	60.3	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189
R0289-06	500	80.3	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235
R0289-06	500	100.3	0252	0253	0254	0255	0256	0257	0258	0259	0260	0261	0262	0263	0264	0265
R0289-06	500	125.3	0282	0283	0284	0285	0286	0287	0288	0289	0290	0291	0292	0293	0294	0295
R0289-06	500	150.3	0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323	0324	0325
R0289-06	500	200.3	0374	0375	0376	0377	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387
R0289-06	500	250.3	0404	0405	0406	0407	0408	0409	0410	0411	0412	0413	0414	0415	0416	0417
R0289-06	500	300.3	0434	0435	0436	0437	0438	0439	0440	0441	0442	0443	0444	0445	0446	0447

Placas pre-acabadas

Pre-finished flat steel plates



R0289

Placa pre-acabada - P2436
Pre-finished flat steel plate - P2436



Color identificativo
Colour symbol

Descripción:

Material: 1.2436
Tolerancias L500: S +0.2 mm, B +0.2 mm, L +5 mm;
Tolerancias L1030: S +0.25 mm, B +0.4 mm, L ± 20 mm;
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0289-06-0001

Description:

Material: 1.2436
Tolerances L500: S +0.2 mm, B +0.2 mm, L +5 mm;
Tolerances L1030: S +0.25 mm, B +0.4 mm, L ± 20 mm
For square section S and B +0.25 mm
Example of purchasing order: R0289-06-0001

Codice Code	L	B	S															
			2.4	3.4	4.4	5.4	6.4	8.4	10.4	12.4	15.4	16.4	20.4	25.4	30.4	32.4	40.4	50.4
R0289-06	1030	8.4						0002										
R0289-06	1030	10.4	0009	0010	0011	0012	0013	0014	0016									
R0289-06	1030	12.4								0018								
R0289-06	1030	15.4	0027	0028	0029	0030	0031	0032	0033	0034	0036							
R0289-06	1030	16.4									0037							
R0289-06	1030	20.4	0047	0048	0049	0050	0051	0052	0053	0054	0055		0057					
R0289-06	1030	25.4	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0080				
R0289-06	1030	30.4	0092	0093	0094	0095	0096	0097	0098	0099	0100	0101	0102	0103	0105			
R0289-06	1030	32.4	0106	0107	0108	0109	0110	0111	0112	0113	0114	0115	0116	0117		0118		
R0289-06	1030	40.4	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143		0145	
R0289-06	1030	50.4	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0175
R0289-06	1030	60.4	0190	0191	0192	0193	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205
R0289-06	1030	63.4	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221
R0289-06	1030	80.4	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251
R0289-06	1030	100.4	0266	0267	0268	0269	0270	0271	0272	0273	0274	0275	0276	0277	0278	0279	0280	0281
R0289-06	1030	125.4	0296	0297	0298	0299	0300	0301	0302	0303	0304	0305	0306	0307	0308	0309	0310	0311
R0289-06	1030	150.4	0326	0327	0328	0329	0330	0331	0332	0333	0334	0335	0336	0337	0338	0339	0340	0341
R0289-06	1030	160.4	0342	0343	0344	0345	0346	0347	0348	0349	0350	0351	0352	0353	0354	0355	0356	0357
R0289-06	1030	175.4	0358	0359	0360	0361	0362	0363	0364	0365	0366	0367	0368	0369	0370	0371	0372	0373
R0289-06	1030	200.4	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398	0399	0400	0401	0402	0403
R0289-06	1030	250.4	0418	0419	0420	0421	0422	0423	0424	0425	0426	0427	0428	0429	0430	0431	0432	0433
R0289-06	1030	300.4	0448	0449	0450	0451	0452	0453	0454	0455	0456	0457	0458	0459	0460	0461	0462	0463
R0289-06	1030	315.4	0464	0465	0466	0467	0468	0469	0470	0471	0472	0473	0474	0475	0476	0477	0478	0479

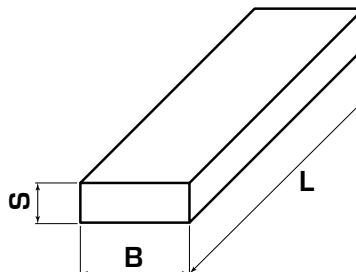
Placas rectificadas

Finished flat steel plates



R0298

Placa rectificada - P1730
Finished flat steel plate - P1730



Color identificativo
Colour symbol

Descripción:

Material: 1.1730
Tolerancias: S +0.25 mm, B +0.4 mm, L ±20 mm
Para las secciones cuadradas S y B +0.25 mm
Ejemplo de pedido: R0298-06-0001

Description:

Material: 1.1730
Tolerances: S +0.25 mm, B +0.4 mm, L ±20 mm
For square section S and B +0.25 mm
Example of purchasing order: R0298-06-0001

Código Code	L	B	S																						
			4	5	6	8	10	12	15	16	20	25	30	32	40	50	60	63	70	80	90	100	120	125	150
R0298-06	1030	10					0001																		
R0298-06	1030	12						0002																	
R0298-06	1030	15							0003																
R0298-06	1030	16							0004																
R0298-06	1030	20	0005	0006	0007	0008	0009	0010	0011	0012	0013														
R0298-06	1030	25	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023													
R0298-06	1030	30	0024	0025	0026	0027	0028	0029	0030		0031	0032	0033												
R0298-06	1030	32	0034	0035	0036	0037	0038	0039		0040	0041	0042		0043											
R0298-06	1030	40	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056										
R0298-06	1030	50	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070									
R0298-06	1030	60	0071	0072	0073	0074	0075	0076	0077		0078	0079	0080		0081	0082	0083								
R0298-06	1030	63	0084	0085	0086	0087	0088	0089		0090	0091	0092		0093	0094	0095		0096							
R0298-06	1030	70	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	0111	0112	0113						
R0298-06	1030	80	0114	0115	0116	0117	0118	0119	0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	0131					
R0298-06	1030	90	0132	0133	0134	0135	0136	0137	0138		0139	0140	0141		0142	0143	0144		0145	0146	0147				
R0298-06	1030	100	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167			
R0298-06	1030	120			0168	0169	0170	0171	0172		0173	0174	0175		0176	0177	0178		0179	0180	0181	0182	0183		
R0298-06	1030	125	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	0195	0196	0197	0198	0199	0200	0201		0202		0203	
R0298-06	1030	140			0204	0205	0206	0207	0208		0209	0210	0211	0212	0213	0214	0215		0216	0217	0218	0219			
R0298-06	1030	150	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	
R0298-06	1030	160	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	0260	0261			
R0298-06	1030	175			0262	0263	0264	0265		0266	0267	0268		0269	0270	0271		0272		0273		0274			
R0298-06	1030	180			0275	0276	0277	0278	0279		0280	0281	0282	0283	0284	0285	0286		0287	0288	0289	0290	0291		
R0298-06	1030	200			0292	0293	0294	0295	0296	0297	0298	0299	0300	0301	0302	0303	0304	0305	0306	0307	0308	0309	0310		
R0298-06	1030	250			0311	0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323	0324	0325	0326	0327	0328	0329		
R0298-06	1030	300			0330	0331	0332	0333	0334	0335	0336	0337	0338	0339	0340	341	0342	0343	0344	0345	0346	0347			
R0298-06	1030	315			0348	0349	0350	0351		0352	0353	0354		0355	0356	0357		0358		0359		0360			
R0298-06	1030	350			0361	0362	0363	0364	0365	0366	0367	0368	0369	0370	0371	0372	0373	0374	0375	0376	0377	0378			
R0298-06	1030	400	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398			
R0298-06	1030	450									0399	0400	0401	0402	0403	0404	0405	0406	0407	0408	0409	0410			
R0298-06	1030	500					0411	0412	0413		0414	0415	0416	0417	0418	0419	0420	0421	0422	0423	0424	0425			

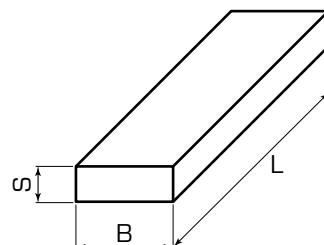
Placas rectificadas

Finished flat steel plates



R0288

Placa rectificada - P2842R
Finished flat steel plate - P2842R



Color identificativo
Colour symbol

Descripción:

Material: 1.2842
Tolerancias L500: S +0.05 mm, B +0.2 mm, L +5 mm;
Tolerancias L1030: S +0.05 mm, B +0.2 mm, L + 35 mm;
Para las secciones cuadradas: S y B +0.05 mm
Ejemplo de pedido: R0288-06-0001

Description:

Material: 1.2842
Tolerances L500: S +0.05 mm, B +0.2 mm, L +5 mm;
Tolerances L1030: S +0.05 mm, B +0.2 mm, L + 35 mm
For square section: S and B +0.05 mm
Example of purchasing order: R0288-06-0001

Código Code	L	B	S																		
			1	1.5	2	3	4	5	6	8	10	12	15	16	18	20	25	30	40	50	60
R0288-06	500	4					0001														
R0288-06	500	5						0003													
R0288-06	500	6							0005												
R0288-06	500	8								0007											
R0288-06	500	10	0009	0010	0011	0013	0015	0017	0019	0021	0023										
R0288-06	500	12	0025	0026	0027	0029	0031	0033	0035	0037	0039	0041									
R0288-06	500	15	0043	0044	0045	0047	0049	0051	0053	0055	0057	0059	0061								
R0288-06	500	16											0063								
R0288-06	500	18												0065							
R0288-06	500	20	0067	0068	0069	0071	0073	0075	0077	0079	0081	0083	0085			0087					
R0288-06	500	25	0089	0090	0091	0093	0095	0097	0099	0101	0103	0105	0107			0109	0111				
R0288-06	500	30	0113	0114	0115	0117	0119	0121	0123	0125	0127	0129	0131			0133	0135	0137			
R0288-06	500	35	0139	0140	0141	0143	0145	0147	0149	0151	0153	0155	0157			0159	0161	0163			
R0288-06	500	40	0165	0166	0167	0169	0171	0173	0175	0177	0179	0181	0183			0185	0187	0189	0191		
R0288-06	500	50	0193	0194	0195	0197	0199	0201	0203	0205	0207	0209	0211			0213	0215	0217	0219	0221	
R0288-06	500	60	0223	0224	0225	0227	0229	0231	0233	0235	0237	0239	0241			0243	0245	0247	0249	0251	0253
R0288-06	500	70	0255	0256	0257	0259	0261	0263	0265	0267	0269	0271	0273			0275	0277	0279	0281	0283	
R0288-06	500	80	0285	0286	0287	0289	0291	0293	0295	0297	0299	0301	0303			0305	0307	0309	0311	0313	
R0288-06	500	100	0315	0316	0317	0319	0321	0323	0325	0327	0329	0331	0333			0335	0337	0339	0341	0343	
R0288-06	500	120	0345	0346	0347	0349	0351	0353	0355	0357	0359	0361	0363			0365	0367	0369	0371	0373	
R0288-06	500	125	0375	0376	0377	0379	0381	0383	0384	0387	0389	0391	0393			0395	0397	0399	0401	0403	
R0288-06	500	150	0405	0406	0407	0409	0411	0413	0415	0417	0419	0421	0423			0425	0427	0429	0431	0433	
R0288-06	500	160	0435	0436	0437	0439	0441	0443	0445	0447	0449	0451	0453			0455	0457	0459	0461	0463	
R0288-06	500	180	0465	0466	0467	0469	0471	0473	0475	0477	0479	0481	0483			0485	0487	0489	0491	0493	
R0288-06	500	200	0495	0496	0497	0499	0501	0503	0505	0507	0509	0511	0513			0515	0517	0519	0521	0523	
R0288-06	500	250	0525	0526	0527	0529	0531	0533	0535	0537	0539	0541	0543			0545	0547	0549	0551	0553	
R0288-06	500	300	0555	0556	0557	0559	0561	0563	0565	0567	0569	0571	0573			0575	0577	0579	0581	0583	

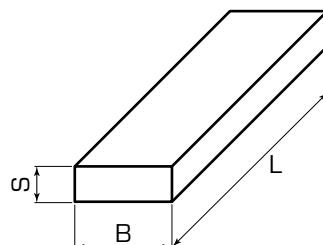
Placas rectificadas

Finished flat steel plates



R0288

Placa rectificada - P2842R
Finished flat steel plate - P2842R



Color identificativo
Colour symbol

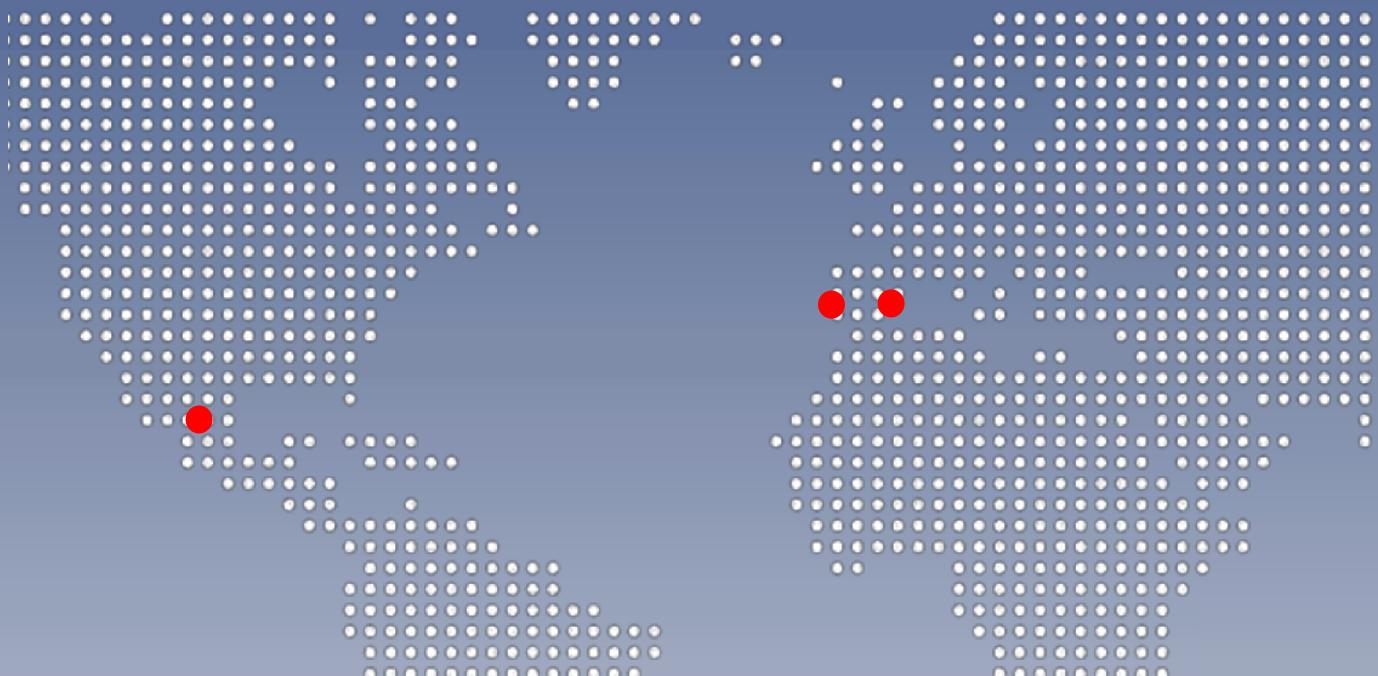
Descripción:

Material: 1.2842
Tolerancias L500: S +0.05 mm, B +0.2 mm, L +5 mm;
Tolerancias L1030: S +0.05 mm, B +0.2 mm, L + 35 mm;
Para las secciones cuadradas: S y B +0.05 mm
Ejemplo de pedido: R0288-06-0001

Description:

Material: 1.2842
Tolerances L500: S +0.05 mm, B +0.2 mm, L +5 mm;
Tolerances L1030: S +0.05 mm, B +0.2 mm, L + 35 mm
For square section: S and B +0.05 mm
Example of purchasing order: R0288-06-0001

Código Code	L	B	S																		
			1	1.5	2	3	4	5	6	8	10	12	15	16	18	20	25	30	40	50	60
R0288-06	1000	4					0002														
R0288-06	1000	5						0004													
R0288-06	1000	6							0006												
R0288-06	1000	8								0008											
R0288-06	1000	10		0012	0014	0016	0018	0020	0022	0024											
R0288-06	1000	12		0028	0030	0032	0034	0036	0038	0040	0042										
R0288-06	1000	15		0046	0048	0050	0052	0054	0056	0058	0060	0062									
R0288-06	1000	16											0064								
R0288-06	1000	18												0066							
R0288-06	1000	20		0070	0072	0074	0076	0078	0080	0082	0084	0086			0088						
R0288-06	1000	25		0092	0094	0096	0098	0100	0102	0104	0106	0108			0110	0112					
R0288-06	1000	30		0116	0118	0120	0122	0124	0126	0128	0130	0132			0134	0136	0138				
R0288-06	1000	35		0142	0144	0146	0148	0150	0152	0154	0156	0158			0160	0162	0164				
R0288-06	1000	40		0168	0170	0172	0174	0176	0178	0180	0182	0184			0186	0188	0190	0192			
R0288-06	1000	50		0196	0198	0200	0202	0204	0206	0208	0210	0212			0214	0216	0218	0220	0222		
R0288-06	1000	60		0226	0228	0230	0232	0234	0236	0238	0240	0242			0244	0246	0248	0250	0252	0254	
R0288-06	1000	70		0258	0260	0262	0264	0266	0268	0270	0272	0274			0276	0278	0280	0282	0284		
R0288-06	1000	80		0288	0290	0292	0294	0296	0298	0300	0302	0304			0306	0308	0310	0312	0314		
R0288-06	1000	100		0318	0320	0322	0324	0326	0328	0330	0332	0334			0336	0338	0340	0342	0344		
R0288-06	1000	120		0348	0350	0352	0354	0356	0358	0360	0362	0364			0366	0368	0370	0372	0374		
R0288-06	1000	125		0378	0380	0382	0383	0386	0388	0390	0392	0394			0396	0398	0400	0402	0404		
R0288-06	1000	150		0408	0410	0412	0414	0416	0418	0420	0422	0424			0426	0428	0430	0432	0434		
R0288-06	1000	160		0438	0440	0442	0444	0446	0448	0450	0452	0454			0456	0458	0460	0462	0464		
R0288-06	1000	180		0468	0470	0472	0474	0476	0478	0480	0482	0484			0486	0488	0490	0492	0494		
R0288-06	1000	200		0498	0500	0502	0504	0506	0508	0510	0512	0514			0516	0518	0520	0522	0524		
R0288-06	1000	250		0528	0530	0532	0534	0536	0538	0540	0542	0544			0546	0548	0550	0552	0554		
R0288-06	1000	300		0558	0560	0562	0564	0566	0568	0570	0572	0574			0576	0578	0580	0582	0584		



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