

FERRITIC AND MARTENSITIC STEELS, INCL. PRECIPITATION HARDENING STEELS

Available Product Shapes

Ground Flat

Product Description

Parts in the aerospace industry, pumps and valves in high pressure components, for hydraulic drives, with good corrosion resistance, strength and toughness.

Properties

Precipitation hardenable stainless steel with high strength up to 315°C (600°F). Good toughness and strength in transverse direction at large sizes.

Material designation		Standards	
1.4545	SEL	2815	EN ISO
1.4548		2817	
S15500	UNS	A564	ASTM
X5CrNiCu15.05	EN	5659	AMS
X5CrNiCu15.05		5862	
X5CrNiCu15-5			
X5CrNiCuNb 15-5			
RZ5CNU 15.05			
EZ5CNU15.15			
XM 12	AISI		
15-5 PH	Market grade		

Chemical composition

C	Si	Mn	Cr	Ni	Cu	Nb
0.04	0.30	0.60	14.90	5.10	3.30	0.30

Thermal Expansions

Temperature (°C / °F)	90 / 194	200 / 392	315 / 599	425 / 797
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	10.8 / 6	10.8 / 6	11.2 / 6.222	11.3 / 6.278

For more information see www.voestalpine.com/boehler-edelstahl

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ONE STEP AHEAD.