

FERRITIC AND MARTENSITIC STEELS, INCL. PRECIPITATION HARDENING STEELS

Available Product Shapes

Open Die Forgings

Product Description

Fittings, pumps, compressors, centrifuges, hydraulic engines, turbines, reactor and naval engineering, chemical industry, oil field equipment, aerospace industry, refrigeration engineering.

Properties

Martensitic chromium stainless steel with 5% nickel addition. Good properties at subzero temperature.

Material designation		Standards
1.4313	SEL	10088-3 EN ISO
1.4418		AFNOR Z6CND16-05-01 Others
X3CrNiMo13-4 X4CrNiMo16-5	EN	

Chemical composition

C	Si	Mn	P	S	Cr	Mo	Ni	N
≤ 0,06	≤ 0,70	≤ 1,50	≤ 0,040	≤ 0,015	15,00 - 17,00	0,80 - 1,50	4,00 - 6,00	≥ 0,020

Physical Properties at 20°C / 68°F

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	10.3 / 5.722	10.8 / 6	11.2 / 6.222	11.6 / 6.444

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

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ONE STEP AHEAD.