

HEAT TREATABLE CORROSION RESISTANT STEELS

Available Product Shapes

Plates

Product Description

BÖHLER M303 is a corrosion resistant martensitic chromium steel, offering excellent toughness, corrosion and wear resistance. It is characterized by improved machinability and polishability.

Properties

- Very high toughness & ductility
- Good wear resistance
- Very good machinability
- Good dimensional stability
- Very good polishability
- Very high corrosion resistance
- No heat treatment necessary
- Pre-paid

Material designation	Standards
1.2316 SEL	4957 EN ISO
X38CrMo16 X38CrMo17 EN	

Chemical composition

C	Si	Mn	Cr	Mo	Ni	N
0.27	0.30	0.65	14.50	1.00	0.85	+

Material characteristics

	Corrosion resistance	Machinability in as supplied condition	Polishability	Toughness	Wear resistance
	★★★★	★★★	★★★★	★★★★	★★★
	★★★★	★★★	★★	★★★	★★★
	★★★	★★	★★★★★	★★★	★★★★
	★★	★★★★★	★	★★	★★
	★★	★★★★★	★	★★	★★

Physical Properties at 20°C / 68°F**Thermal Expansions**

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752	500 / 932	600 / 1112
Thermal expansion (10^{-6} m/(m.K) / 10^{-6} inch/(inch.F))	10.5 / 5.833	10.83 / 6.017	11.11 / 6.172	11.39 / 6.328	11.75 / 6.528	12.1 / 6.722

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

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ONE STEP AHEAD.