DUPLEX AND SUPER DUPLEX STAINLESS STEELS

Available Product Shapes

Open Die Forgings

Product Description

Components in the chemical industry, e.g. seperator and heat exchanger parts, in the paper industry, oil and gas production , compressor parts, seawater desalination plants.

Properties

Stainless ferritic-austenitic Cr-Ni-Mo-steel with nitrogen addition. High corrosion resistance, especially against stress corrosion cracking in solutions containing chloride. Good strength properties. Resistant to intergranular corrosion in the temperature range up to 300°C. Heat treatment subsequent to welding not necessary. Surface condition for optimum corrosion resistance: pickled, heat treated free from scale or machined.

Material designation	
1.4462	SEL
S31803	UNS
S32205	
X2CrNiMoN22-5-3	EN
AISI: F51	AISI

Standards	
10088-3	EN ISO
F51	ASTM
A182	
A276	
A479	
STN: 17 381	STN

Chemical composition

C	Si	Mn	Cr	Mo	Ni	N
0.025	0.60	1.30	22.80	3.20	5.80	0.17

Physical Properties at 20°C / 68°F

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572
Thermal expansion (10^{-6} m/(m.K) / 10^{-6} inch/(inch.F))	13 / 7.222	13.5 / 7.5	14 / 7.778

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

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ONE STEP AHEAD.