HEAT RESISTING STEELS

Available Product Shapes

Plates

Product Description

Heat treatment shops, Furnace and boiler construction, Glass, porcelain, enamel, cement and ceramic industries, Mechanical engineering, Petroleum industry

Properties

Heat resisting austenitic steel. Superior high temperature strength and excellent toughness. Heat resistance in air up to 1100°C. Good resistance in oxydizing, nitrogenous and low oxygen gases. Medium resistance in sulphurous, oxidizing gases but sensitive to the action of reducing sulphurous gases. Embrittlement only occours after prolonged exposure in the temperature range of 650 to 900°C. Therefore in the case continous working temperatures more than 950°C are recommended.

Material designation	
1.4876	SEL
N08800	UNS
N08810	
N08332	
N08811	
X10NiCrAlTi32-21	EN
NCF 800 HTF	JIS
NCF 800 TF	
NCF 800	
NCF 800 TP	
NCF 800 TB	

Chemical composition

C	Si	Mn	Cr	Ni	Ti	Al
0.07	0.35	0.75	20.80	32.00	0.30	0.30

Physical Properties at 20°C / 68°F

Thermal Expansions

Temperature (°C / °F)	200 / 392	400 / 752	600 / 1112	800 / 1472	1000 / 1832
Thermal expansion (10^{-6} m/(m.K) / 10^{-6} inch/(inch.F))	15 / 8.333	16 / 8.889	17 / 9.444	17.5 / 9.722	18.5 / 10.278

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

voestalpine BÖHLER Edelstahl GmbH & Co KG
Mariazeller Straße 25
8605 Kapfenberg, AT
T. +43/50304/20-0
E. info@bohler-edelstahl.at
www.voestalpine.com/bohler-edelstahl

voestalpine
ONE STEP AHEAD.