

Stainless Steel (inc. High Performance) - 1.4003 / 3CR12

Sheet 2B Finish

Properties

Stock		Chemical Properties	
Size (mm)	Weight/Sheet (Kg)	Element	Chemical Composition %
1D Finish		Carbon (C)	0.0 - 0.03
2500 x 1250 x 1.0	24.50	Chromium (Cr)	10.5 - 12.5
2000 x 1000 x 1.2	19.20	Manganese (Mn)	0.0 - 1.50
2500 x 1250 x 1.2	30.00	Silicon (Si)	0.0 - 1.0
2000 x 1000 x 1.5	24.50	Phosphorus (P)	0.0 - 0.04
2500 x 1250 x 1.5	38.20	Sulphur (S)	0.0 - 0.02
3000 x 1500 x 1.5	55.00	Nickel (Ni)	0.30 - 1.0
2000 x 1000 x 2.0	32.60	Nitrogen (N)	0.0 - 0.03
3000 x 1500 x 2.0	73.40	Iron (Fe)	Balance
2500 x 1250 x 2.5	63.70		

Mechanical Properties	
Property	Value
Proof Stress	250 min MPa
Tensile Strength	450 - 650 MPa
Elongation	18% min
Compressive Strength	280 min MPa

Physical Properties	
Property	Value
Density	7.74 g/cm ³
Melting Point	1430 - 1510°C
Thermal Expansion	11.1 - 12.3 x 10 ⁻⁶ /K
Modulus of Elasticity	200 GPa
Thermal Conductivity	30.5 W/m.K
Electrical Resistivity	0.0678 x 10 ⁻⁶ Ω.m

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