

Stainless Steel (inc. High Performance) - 1.4016 / 430

Box Section - Dull Polished

Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (Kg)	Element	Chemical Composition %
25 x 25 x 1.2	0.92	Carbon (C)	0.0 - 0.08
30 x 30 x 1.2	1.11	Chromium (Cr)	16.0 - 18.0
30 x 30 x 1.5	1.37	Manganese (Mn)	0.0 - 1.0
40 x 40 x 1.5	1.85	Silicon (Si)	0.0 - 1.0
		Phosphorus (P)	0.0 - 0.04
		Sulphur (S)	0.0 - 0.02
		Iron (Fe)	Balance
		Mechanical Properties	
Property		Value	
Proof Stress		240 min MPa	
Tensile Strength		450 - 600 MPa	
Elongation A50 mm		20%	
		Physical Properties	
Property		Value	
Density		7.75 g/cm ³	
Melting Point		1425 - 1510°C	
Thermal Expansion		10.4 x 10 ⁻⁶ /K	
Modulus of Elasticity		200 GPa	
Thermal Conductivity		23.9 W/m.k	
Electrical Resistivity		0.060 x 10 ⁻⁶ Ω.m	

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