

Stainless Steel (inc. High Performance) - 1.4404 / 316L

CPP Plate

Properties

Stock		Chemical Properties	
Size (mm)	Weight/Sheet (Kg)	Element	Chemical Composition %
1D Finish		Carbon (C)	0.0 - 0.03
2000 x 1000 x 3.0	48.00	Chromium (Cr)	16.50 - 18.50
2500 x 1250 x 3.0	75.00	Molybdenum (Mo)	2.0 - 2.5
2000 x 1000 x 4.0	64.00	Silicon (Si)	0.0 - 1.0
2500 x 1250 x 4.0	100.00	Phosphorus (P)	0.0 - 0.05
3000 x 1500 x 4.0	144.00	Sulphur (S)	0.0 - 0.01
2000 x 1000 x 5.0	80.00	Nickel (Ni)	10.0 - 13.0
2500 x 1250 x 5.0	125.00	Manganese (Mn)	0.0 - 2.0
3000 x 1500 x 5.0	180.00	Iron (Fe)	Balance
4000 x 2000 x 5.0	320.00	Above properties are for 1.4404	
2000 x 1000 x 6.0	96.00	1.4404/316L also corresponds to the following designation 316S11	
2500 x 1250 x 6.0	150.00		
3000 x 1500 x 6.0	216.00		
4000 x 2000 x 6.0	384.00		
6000 x 2000 x 6.0	576.00		
2000 x 1000 x 8.0	128.00		
2500 x 1250 x 8.0	200.00		
3000 x 1500 x 8.0	288.00		
4000 x 2000 x 8.0	512.00		
2000 x 1000 x 10.0	160.80		
2500 x 1250 x 10.0	250.00		
3000 x 1500 x 10.0	360.00		
4000 x 2000 x 10.0	640.00		
6000 x 2000 x 10.0	960.10		
2500 x 1250 x 12.0	300.00		
3000 x 1500 x 12.0	432.00		
4000 x 2000 x 12.0	785.00		
2500 x 1250 x 15.0	384.00		
3000 x 1500 x 15.0	554.00		
2500 x 1250 x 20.0	513.00		
3000 x 1500 x 20.0	738.00		

Mechanical Properties	
Property	Value
Properties below are for 1.4404 (316L) which also corresponds to 316S11	
Proof Stress	220 min MPa
Tensile Strength	520 - 680 MPa
Elongation A50 mm	40% min

Physical Properties	
Property	Value
Density	8.00 g/cm ³
Melting Point	1400°C
Thermal Expansion	15.9 x 10 ⁻⁶ /K
Modulus of Elasticity	193 GPa
Thermal Conductivity	16.3 W/m.K
Electrical Resistivity	0.074 x 10 ⁻⁶ Ω.m
1.4404/316L also corresponds to the following designation 316S11	

Disclaimer

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