

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

Plate

Properties

Stock		Chemical Properties	
Size (mm)	Weight/Sheet (Kg)	Element	Chemical Composition %
4000 x 2000 x 2.0	128.00	Carbon (C)	0.0 - 0.03
4000 x 2000 x 3.0	192.00	Chromium (Cr)	16.50 - 18.50
2000 x 1000 x 4.0	64.00	Molybdenum (Mo)	2.0 - 2.5
2500 x 1250 x 4.0	100.00	Silicon (Si)	0.0 - 1.0
3000 x 1500 x 4.0	144.00	Phosphorus (P)	0.0 - 0.05
4000 x 2000 x 4.0	256.00	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	120.00	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	Mechanical Properties	
2000 x 1000 x 8.0	128.00	Property	Value
2500 x 1250 x 8.0	200.00	Properties below are for 1.4404 (316L) which also corresponds to 316S11	
3000 x 1500 x 8.0	288.00	Proof Stress	220 min MPa
2000 x 1000 x 10.0	160.00	Tensile Strength	520 - 680 MPa
2500 x 1250 x 10.0	250.00	Elongation A50 mm	40% min
3000 x 1500 x 10.0	360.00		
2500 x 1250 x 12.0	300.00	Physical Properties	
3000 x 1500 x 12.0	432.00	Property	Value
2500 x 1250 x 15.0	389.00	Density	8.00 g/cm ³
3000 x 1500 x 20.0	747.00	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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