

Stainless Steel (inc. High Performance) - 1.4307 / 304L

Special Handrail Tube Dull Polish

Properties

Stock			Chemical Properties	
OD (mm)	Wall (mm)	Wt/m (Kg)	Element	Chemical Composition %
42.4	1.5	1.54	Carbon (C)	0.0 - 0.03
42.4	2.0	2.02	Chromium (Cr)	17.5 - 19.5
42.4	2.5 / 2.6	2.50	Manganese (Mn)	0.0 - 2.0
48.3	1.5	1.76	Silicon (Si)	0.0 - 1.0
48.3	2.0	2.32	Phosphorus (P)	0.0 - 0.05
48.3	2.5 / 2.6	2.87	Sulphur (S)	0.0 - 0.02
50.8	3.0	3.59	Nickel (Ni)	8.0 - 10.50

Iron (Fe)	Balance
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Above properties are for 1.4307
 1.4307/304L also corresponds to the following designation 304S11

Mechanical Properties

Property	Value
Tensile Strength	500 to 670 MPa
Elongation	45% min
Compressive Strength	200 MPa

Above properties are for 1.4307
 1.4301/304 also corresponds to the following designation 304S11

Physical Properties

Property	Value
Density	8.00 g/cm ³
Melting Point	1450°C
Thermal Expansion	17.2 x 10 ⁻⁶ /K
Modulus of Elasticity	193 GPa
Thermal Conductivity	16.2 W/m.K
Electrical Resistivity	0.072 x 10 ⁻⁶ Ω.m

1.4307/304L also corresponds to the following designation 304S11

Disclaimer

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

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