

1.4404 / 316L

## Chemical Properties

Element	Chemical Composition %
Carbon (C)	0.0 - 0.03
Chromium (Cr)	16.50 - 18.50
Molybdenum (Mo)	2.0 - 2.5
Silicon (Si)	0.0 - 1.0
Phosphorus (P)	0.0 - 0.05
Sulphur (S)	0.0 - 0.01
Nickel (Ni)	10.0 - 13.0
Manganese (Mn)	0.0 - 2.0
Iron (Fe)	Balance

Above properties are for 1.4404

1.4404/316L also corresponds to the following designation 316S11

## 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 <sup>3</sup>
Melting Point	1400°C
Thermal Expansion	15.9 x 10 <sup>-6</sup> /K
Modulus of Elasticity	193 GPa
Thermal Conductivity	16.3 W/m.K
Electrical Resistivity	0.074 x 10 <sup>-6</sup> Ω.m

1.4404/316L also corresponds to the following designation 316S11

## Product Forms

45 deg L/R Elbow

45 deg L/R Elbow

600 Grit Mirror Polished

90 deg L/R Elbows

90 deg L/R Elbows

Angle

Box Section Dull Polished

Box Section Unpolished

Bright Polished

BS10

BS4504

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BSP 150LB fittings

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Concentric Reducers

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Concentric Reducers

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CPP Plate

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D Section

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Eccentric Reducers

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End Caps

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Equal Tees

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Equal Tees

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Flat Bar

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Glass Clamp sets

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Handrail Dull Polish

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Handrail Mirror Polished

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Handrail Satin Polish 320 Grit

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Hexagon Bar

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Hygienic fittings

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Hygienic Welded Tube

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Linear Buff

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Linear Buff Super Mirror Marine

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Metric ISO tube

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Mirror Polish

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Ornamental Square

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Oval Tube

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Plate

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R/F Slip on & Blind

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Rectangular Section Dull Polished

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Rectangular Section Mirror Polished

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Rectangular Section Unpolished

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Reducing Tees

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RF Weld Neck

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Round Bar

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Satin Polish 320 Grit

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Seamless Pipe

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Seamless Tube

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Sheet 2B Finish

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Sheet Dull Polish 240S

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Sheet No8 Marine

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Sheet Super Mirror Marine

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Square Bar

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Stub Ends

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Stub Ends

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Super Mirror Marine

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Super Mirror Marine

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Welded Pipe

## 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.

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