

UNS S31254 Stainless Steel

UNS S31254 stainless plate, round and flat bar

UNS S31254 stainless steel stockholders and suppliers, delivering throughout the UK.

UNS S31254 is a high molybdenum austenitic stainless steel specification. Its high molybdenum content combined with elements such as nickel and copper gives UNS S31254 excellent resistance to pitting and crevice corrosion. In acids containing halides it offers good resistance to uniform corrosion and is superior to other austenitic stainless steel grades.

Related Specifications

6 Moly 31254 254SMO F44 1.4547 ASTM A182 ASTM A479 ASTM A276 EN10272 ASME SA479

Alternative stainless steel grades we supply 17/4PH | FV520B | 904L | 321 | 316 | 310 | 304 | 440B | 440C | 420 | 410 | 416 | 431 |

Form of Supply

West Yorkshire Steel are UNS S31254 stainless steel suppliers and stockholders of round bar and plate . Diameters can be supplied sawn to your requirements. UNS S31254 plate can be plasma cut to size. Ground bar can be supplied, providing a high quality precision ground bar to your close tolerances.



- Flat
- Diameter
- Plate

Contact our experienced sales team who will assist you with your UNS S31254 enquiry.

Applications

UNS S31254 stainless steel is ideally suited for use in halide environments and widely used in the chemical, marine, oil and gas industries. Typical applications include pumps, valves, heat exchangers, flanges and manifolds.

Analysis

Carbon	0.02% max	Silicon	0.70% max
Manganese	1.00% max	Nickel	17.50-18.50%
Chromium	19.50-20.50%	Molybdenum	6.00-7.00%
Sulphur	0.01% max	Phosphorous	0.03% max
Copper	0.50-1.00%	Nitrogen	0.18-0.25%

Corosion Resistance

UNS S31254 offers higher resistance to abrasion, erosion and cavitation erosion than other austenitic stainless grades such as 316. UNS S31254 has excellent resistance to corrosion in sea water and concentrated halide environments, with good resistance to crevice corrosion in seawater.

Welding

Stainless steel UNS S31254 is readily weldeable with welding procedures used for other austenitic stainless steel specifications. Welding should be carried out at the lowest heat possible as due to its austenite structure it can be prone to hot cracking. We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding UNS S31254 stainless steel.

Typical Mechanical Properties

Temp	Density Kg/m³	Mean Coefficient of Thermal	Modulus of Elasticity	Electrical Resistivity	Specific Heat J/kg I°C
	Ng/111	Expansion	kg/mm	Ω mm ² /m	3/ Kg T C
20	8.00	16x10-6	19500	0.5	500

Certification

Stainless steel UNS S31254 grade is available with BS EN 10204 3.1 mill certificate, please request when placing any orders.

Quality Assured Supply

UNS S31254 stainless steel is supplied in accordance with our ISO 9001:2015 registration.