

## 1.4418 QT900 Stainless Steel

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**1.4418 stainless steel stockholders and suppliers, delivering to the whole of the UK.** West Yorkshire Steel are suppliers of 1.4418 martensitic/austenitic stainless steel round bar. 1.4418 is a high strength low carbon grade with good welding properties which remain consistent after welding. Its martensite/austenite structure offers better corrosion characteristics than standard martensitic stainless grades. 1.4418 has very good fatigue resistance.

We welcome export enquiries for stainless steel. Contact our sales office and consult our [shipping policy](#) for further details.

### Alternative stainless grades we supply

[FV520B](#) | [S31254](#) | [904L](#) | [310](#) | [321](#) | [316](#) | [440B](#) | [440C](#) | [420](#) | [410](#) | [416](#) | [431](#) | [17/4PH](#) | [S31803](#) | [S32760](#)

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### Form of Supply

West Yorkshire Steel are suppliers and stockholders of round bar. Sawn blanks can be supplied cut to your requirements as one offs or multiple cut pieces. Precision ground bar can be supplied, providing a high quality precision ground bar to close tolerances.

Contact our experienced sales team who will assist you with your 1.4418 stainless steel enquiry.

- Diameter
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### Applications

Commonly used in industries such as, marine, pulp and energy. 1.4418 is used for components such as belts, shafts, pins, pumps and turbine parts.

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## Analysis

Carbon	0.04% max	Chromium	16.00%
Manganese	0.80% max	Nickel	5.00%
Silicon	0.40% max	Molybdenum	0.80%
Phosphorous	0.003% max	Nitrogen	0.05%
Sulphur	0.003% max		

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## Corrosion Resistance

1.4418 stainless has better corrosion resistance properties than other martensitic grades. It offers better corrosion resistance to other martensitic stainless grades such as [431](#) and with its additional molybdenum content offers characteristics for use in some marine environments. It is similar to 304 offering good resistance to organic, acetic and mineral acids at room temperature and extremely resistant to stress corrosion cracking, intergranular corrosion and corrosion fatigue.

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## Welding

1.4418 has better welding properties than other martensitic stainless grades. Pre heating before welding is recommended in some circumstances. We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding 1.4418 stainless steel.

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## Typical Mechanical Properties

Tensile Strength	950-1100 N/mm <sup>2</sup>
Yield Strength	750 N/mm <sup>2</sup> min
Reduction of area	45 (Z%) min
Elongation	16 (Z%) min
Hardness	340 HB max

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## Certification

Stainless steel grade 1.4418 is available with BS EN 10204 3.1 mill certificate, please request when placing any orders.

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## Quality Assured Supply

1.4418 is supplied in accordance with our ISO 9001:2015 registration.