

STEEL



LIBERTY

AMS 6499

High strength steel
suitable for carburising

High strength steel resistant to high mechanical and high fatigue stress

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Features and benefits

- High strength steel suitable for high mechanical and high fatigue applications
- Suitable for carburising for contact friction applications
- High tempering temperature allows carburised components to be surface coated
- Usable at high working temperatures

Chemical analysis

C	Si	Ni	Cr	Mo	V
0.40	2.70	1.75	0.85	0.40	0.20

Mechanical properties of typical specifications

0.2% Proof stress (MPa)	1790
Tensile Strength (MPa)	2150
Elongation	9 %
Reduction of area	40 %

Supply condition and availability

- Supplied as Bright Bar
- Readily available from stock in size range 18mm-250mm diameter
- Other sections on request

Heat treatment

Hardening: Heat to 920 °C, Oil quench
Sub-zero treatment: Cool to -75 °C for 4 hours

Typical applications

- Gears
- Transmission shafts
- Torsion bars

Related specifications

AMS6499B

Technical support

We have a comprehensive technical support team available to advise on grade selection and product range to achieve the maximum benefit. Customer Technical support provide specialist advice and help with day-to-day problem solving.

Works based metallurgists and the full resources of our Steel Research and Development Laboratories are available to assist with longer-term developments.

For further information, enquiries or any technical guidance on our range of Aerospace products please contact our experts using the details below.

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