## **Technical Datasheet**



## **Aerospace Steel Bar**

Service. Quality. Value.

# **Product Description**

BS S98 aerospace steel bar is suitable for applications where tensile and yield strength requirements are higher than S96 and S97. The material is a particularly suitable where surface pressure exists. Classed as a high hardenability steel, S98 aerospace bar (which is an equivalent of EN26), offer a combination of high strength and toughness and works well in high temperature service applications. The alloy is used in a wide range of industry applications including aerospace, motorsport and oil & gas.

## **Availability**

Bar

# **Typical Applications**

- Hydraulic shafts
- Torsion bars
- Axles
- · Connecting rods
- Sockets
- Spindles

## **Key Features**

- Hardenability steel
- Higher tensile and yield strength when compared to S96 & S97
- Good creep resistance and toughness
- Supplied annealed and bright annealed
- Wide range of applications

Chemical Composition (weight %)											
Weight (%)	С	Si	Mn	Р	S	Cr	Мо	Ni	Al		
Min	0.36	0.10	0.45			0.50	0.45	2.3	0.015		
Max	0.44	0.35	0.70	0.025	0.020	0.80	0.65	2.8	0.050		

Mechanical Properties											
Grade	Treatment	Tensile Strength (Rm) (min)	Proof Stress Rp 0.2,	Elongation (%) (min)	Hardness (HB)	Hardness (HV)					
3S98 2S98D	Solution Annealed Hardened & Tempered	- 75-85 tons / sq in	65 tons / sq in	10	277 max 341-388	360-410					

### **Technical Assistance**

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

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