

BS S62D Bright

Technical Datasheet



Service. Quality. Value.

Stainless Steel Bar

Typical Applications

- Aerospace components
- Medical sector in instruments
- Cutlery
- Hand tools
- Plastic Moulds
- Pump shafts

Product Description

A martensitic stainless steel similar to type 410 but with an increased carbon content that improves hardness, strength and wear resistance. Corrosion resistance properties are achieved by the addition of >12% chromium and heat treatments. Not often welded but it is possible.

Related Specifications

- W.Nr 1.4014
- Gen 420S37

Key Features:

- Increased carbon which improves hardness
- Corrosion resistance is good especially if the material is hardened
- Similar to Type 410
- Martensitic stainless alloy

Corrosion Resistance

Good corrosion resistance, especially once hardened.

Weldability

Not usually welded but is possible

Availability

Bar

Chemical Composition (weight %)

Weight (%)	C	Mn	Si	Ni	Cr	S	P	Fe		
Min	0.18				12.0			Bal		
Max	0.25	1.0	0.8	1.0	14.0	0.025	0.03	Bal		

Mechanical Properties

Tensile Strength (MPa)	0.2% Proof Stress	Elongation (%)	Brinell Hardness (HB)	
696 -853	530 MPa	15 min.	201-255	

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.

UK Service Centres:

Smiths Belfast **02895 908 897**
Smiths Biggleswade **01767 604 704**
Smiths Birmingham **0121 728 4940**
Smiths Bristol **0117 971 2800**
Smiths Chelmsford **01245 466 664**
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Smiths Norwich **01603 789 878**
Smiths Nottingham **0115 925 4801**
Smiths Redruth **01209 315 512**
Smiths Verwood **01202 824 347**
Main Office **0845 527 3331**

Quality & Testing:



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