Stainless Steel Bar



Typical Applications

- Aerospace components
- Turbine blades
- Suspension components
- Bearings
- Automotive parts
- Fasteners

Product Description

S124 is a martensitic type 416 stainless steel containing 12% chromium. The alloy offers excellent free machining properties due to the addition of sulphur. However, this comes at the cost of reduced corrosion resistance, formability & weldability.

Key Features:

- Free machining alloy
- Suitable for automatic lathes
- Can be heat treated
- Added sulphur improves machinability
- Based on type 416 stainless steel

Related Specifications

• Gen 416S37

Availability

Bar

Chemical Compo	osition	(weigh	t %)								
Weight (%)	С	Si	Mn	Р	S	Cr	Мо	Ni	Zr	Fe	Mo+Zr
Min	0.15				0.15	12.0				Bal	
Max	0.25	1.0	1.5	0.045	0.4	14.0	0.60	1.00	0.6	Bal	1.0

Mechanical Properties	
Ultimate Tensile Strength (UTS)	45 to 55 tonf/sq in
0.2% Proof Stress	29 tonf/sq in
Elongation	11% (min)
Brinell Hardness	201 to 255 HB
Brinell Vickers	210 to 270 HV
Impacts	20 ft lb/min

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:			Quality & Testing:	
Smiths Belfast 02895 908 897	Smiths Leeds	0113 307 5167		*
Smiths Biggleswade 01767 604 704	Smiths Manchester	0161 794 8650	DSI 150 9001	
Smiths Birmingham 0121 728 4940	Smiths Norwich	01603 789 878	Quality Management	[()∢()]
Smiths Bristol 0117 971 2800	Smiths Nottingham	0115 925 4801		
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