

BS S144D

Technical Datasheet



Stainless Steel Bar

Service. Quality. Value.

Typical Applications

- Aerospace components
- Military components
- High technology applications
- Automotive components
- Industrial bearings
- Precision parts

Key Features:

- High strength alloy
- Heat treated for added tensile strength
- Identical chemical composition to S143 but greater strength alloy
- Moderate to good corrosion resistance

Product Description

S144D is a precipitation hardening stainless steel with high strength and moderate to good corrosion resistance. The alloy has an identical chemical composition when compared to S143 but a higher tensile strength is achieved as a result of heat treatment.

Related Specifications

- BS 3S 144
- 104594
- X5CrNiMoCuNb14.5
- S145

Corrosion Resistance

Moderate to good

Availability

Bar

Chemical Composition (weight %)

Weight (%)	C	Cr	Cu	Mn	Mo	Nb	Ni	P	S	Si	Fe
Min		13.2	1.2		1.2	0.1	5.0				Bal
Max	0.07	14.7	2.0	1.0	2.0	0.4	5.8	0.035	0.025	0.6	Bal

Mechanical Properties

Ultimate Tensile Strength (UTS)	1130 to 1330 MPa
0.2% Proof Stress	1030 MPa
Elongation	12% (min)
Brinell Hardness	352 to 401 HB

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**
Smiths Gateshead **0191 469 5428**
Smiths Horsham **01403 261 981**

Smiths Leeds **0113 307 5167**
Smiths Manchester **0161 794 8650**
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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