

Stainless Steel Bar

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
- Moderate to good corrosion resistance
- Improved strength levels over both S143 & S144
- Can be supplied solution treated or solution treated and precipitated

Product Description

S145D is a precipitation hardening stainless steel with high strength and moderate to good corrosion resistance. The alloy is identical in chemical composition to both S143 & S144 but has higher tensile strength which is achieved through heat treatment.

Corrosion Resistance

Moderate

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

	Tensile Strength	Yield Strength	Elongation	Hardness (HB)
S145D (solution treated)				363 max
S145H (solution treated & precipitated)	1270 - 1470 N/mm ²	1030 N/mm ²	10 %	375 - 429

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:

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 Smiths Biggleswade **01767 604 704**
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Quality & Testing:



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