

## S156 ALLOY STEEL - BS S82

S156 is a high strength VAR steel with a tensile strength of between 1320-1520 MPa. Material is supplied in the normalised and softened / annealed condition and develops a hard wear resistance case after surface treatment.

### Specific Gravity

7.8 g/cm<sup>3</sup>

### Typical Applications

Helicopter and aircraft gears  
Motorsport gears

### Related Specifications

**16NCD17**  
**W.Nr 1.6722**  
**W.Nr 1.6723**  
**BS S82**

### Chemical Composition (Wt %)

	C	Si	Mn	P	S	Cr	Mo	Ni	Fe
<b>Min</b>	0.14	0.10	0.25	–	–	1.0	0.20	3.8	Bal
<b>Max</b>	0.18	0.35	0.55	0.015	0.012	1.4	0.30	4.3	–

### Typical Mechanical Properties after heat treatment

0.2% Proof Stress	Tensile Strength		Elongation	Reduction of area	Hardness
	MPA	ft lbf			
Min	Min	Max	Min	Min	Min
1030	1320	1520	11	40	30

### Hardness in Normalised and Softened Condition

277 HB Max

\* This data has been supplied in good faith and is indicative only. It has been provided for general information purposes only and is not to be relied upon in place of the full specification. Mechanical properties can vary considerably with different supply conditions such as heat treatment or temper and product dimensions.

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