

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/cm3									
Typical Applications					Related Specifications				
Helicopter and aircraft gears Motorsport gears					16NCD17 W.Nr 1.6722 W.Nr 1.6723 BS S82				
Chemical Composition (Wt %)									
	C	Si	Mn	P	S	Cr	Mo	Ni	Fe
Min	0.14	0.10	0.25	–	–	1.0	0.20	3.8	Bal
Max	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		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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