

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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