

300M ALLOY STEEL

300M is a low alloy, vacuum melted, steel of very high strength. Essentially it is a modified AISI 4340 steel with silicon, vanadium and slightly greater carbon and molybdenum content than 4340. 300M alloy steel (AMS 6257, AMS 6417, AMS 6419) has a very good combination of strength (1900-2100 MPA after final heat treatment), toughness, fatigue strength and good ductility. 300M is a through hardening alloy.

Specific Gravity										
7.83 g/cm ³										
Typical Applications						Related Specifications				
Aircraft Landing Gear Driveshafts High Strength bolts Gears						AMS 6257 AMS 6417 AMS 6419 BS S155 BMS 7-26 MTL 1201 MIL S 8844				
Chemical Composition (Wt %)										
	C	Si	Mn	P	S	S+P	Cr	Mo	Ni	V
Min	0.39	1.5	0.6	–	–	–	0.7	0.3	1.65	0.05
Max	0.44	1.8	0.9	0.015	0.015	0.025	0.95	0.45	2	0.10
Typical Mechanical Properties										
	0.2% Proof Stress		Tensile Strength		Elongation		Reduction of area			
	MPA		MPA		%		%			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Longitudinal	1550	1900	2100	8	30					

Transverse	1550	1900	2100	5	20
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Hardness after Heat Treatment

534 – 601 HB

52 – 55 HRC

* 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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