300m Alloy Steel

Typical Applications

Aircraft Landing Gear

Driveshafts

High Strength bolts

Gears

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 - BS S155, BMS 7-26, MTL 1201, MIL S 8844.

Related Products

15Cdv6 Bar Sheet Tube

300M

4130 Bar And Tube

4130 Sheet And Plate

4340

52100

S99

EN24

Hy Tuf

S156

T45

M50 Steel Bar

4330 Alloy Steel

BS S106

Technical specification

Related Specifications

AMS 6257

AMS 6417

AMS 6419

BS S155

BMS 7-26

MTL 1201

MIL S 8844

Specific Gravity

7.83 g/cm3

Chemical Composition (WT %)

	Min	Max
C	0.39	0.44
Si	1.5	1.8
Mn	0.6	0.9
P	-	0.015
S	-	0.015
S+P	-	0.025
Cr	0.7	0.95
Mo	0.3	0.45
Ni	1.65	2
V	0.05	0.10

Typical Mechanical Properties

			Longitudinal	Transverse
0.2% Proof Stress	MPA	Min	1550	1550
Tensile Strength	MPA	Min	1900	1900
Tensile Strength	MPA	Max	2100	2100
Elongation	%	Min	8	5

Reduction of area	%	Min	30	20

Need more information? ***Get in touch***

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