

# 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
<b>C</b>	0.39	0.44
<b>Si</b>	1.5	1.8
<b>Mn</b>	0.6	0.9
<b>P</b>	-	0.015
<b>S</b>	-	0.015
<b>S+P</b>	-	0.025
<b>Cr</b>	0.7	0.95
<b>Mo</b>	0.3	0.45
<b>Ni</b>	1.65	2
<b>V</b>	0.05	0.10

*Typical Mechanical Properties*

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

