

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/cm3

Typical Applications	Related Specifications				
Aircraft Landing Gear	AMS 6257				
Driveshafts	AMS 6417				
High Strength bolts	AMS 6419				
Gears	BS S155				
	BMS 7-26				
	MTL 1201				
	MIL S 8844				

Chemical Composition (Wt %)

	С	Si	Mn	Р	S	S+P	Cr	Мо	Ni	V
Min	0.39	1.5	0.6	_	-	-	0.7	0.3	1.65	0.05
Мах	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	Min	Max	Min	Min
Longitudinal	1550	1900 2100		8	30

05/08/2025 09:44 1 of 3

Transverse	1550	1900	2100	5	20
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 differer supply conditions such as heat treatment or temper and product dimensions.

The information provided in this datasheet has been taken from multiple recognised sources. No guarantee is given that the information is from the latest issue of these sources and no guarantee is given that the information in the datasheet is

Material supplied by Dynamic Metals Ltd may vary significantly from this data but will conform to the relevant

As the products detailed may be used for a wide variety of purposes and as Dynamic Metals Ltd has no control over their use; Dynamic Metals Ltd specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to

Advice given by Dynamic Metals Ltd to any third party is given for that party's assistance only and without liability on the part of Dynamic Metals Ltd

All transactions are subject to Dynamic Metals Ltd latest Terms and Conditions of Sale. The extent of the Company's liabilitie to any customer is clearly set out in those Conditions; a copy of which is available by request or by downloading from our

General Enquiries

T: +44 (0) 1525 217 556 (tel:+4401525217556)

E: sales@dynamicmetalsltd.com_(mailto:sales@dynamicmetalsltd.com)



UK Address:

Head Office

40 Eden Way Chartwell Business Park Leighton Buzzard Bedfordshire LU7 4FY

T: +44 (0)1525 217 556 (tel:+441525217556)

Conversion Centre

Suite 2 Meadowhall Riverside Meadowhall Road Sheffield South Yorkshire S9 1BW

T: +44 (0)1143 030 320 (tel:+4401143030320)

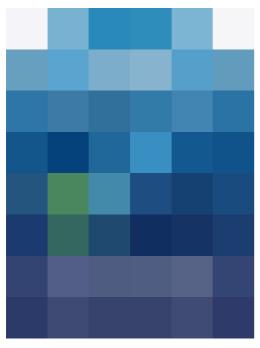
05/08/2025 09:44 2 of 3

No liability will be accepted by Dynamic Metals Ltd in respect of any action taken by any third party in reliance of any of the

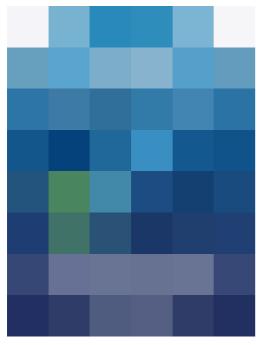
Registered Office (only)

The Granary Crowhill Farm Ravensden Road Wilden Bedfordshire MK44 2QS

T: +44 (0)1525 217 556 (tel:+441525217556)



(/media/zn2dbklo/cyber-essentials-certified-plus.png)



(/media/dyelbliq/cyber-essentials-certified.png)

05/08/2025 09:44 3 of 3