

TOOL STEEL: GAUGE PLATE**DSM 1.1.7****Definition:**

Gauge Plate is a cold worked oil hardening precision ground general purpose flat tool steel supplied in the annealed condition. It is tough, hard and resistant to wear, often used where the expense of a high carbon, high chromium tool steel would not be justified.

Features:

Gauge plate is heat treatable to a high hardness & maintains dimensional stability during this process. Not suitable for welding.

ASM (DEK) Applications:

Hardened guide bars and wear pads.

These values are representative and should not be considered as definitive. For critical applications, refer to material data-sheet.

TYPICAL MECHANICAL PROPERTIES @25°C	
DENSITY:	7860 Kg/m ³
YOUNGS MODULUS:	193 GPa
POISSONS RATIO:	0.29
YIELD STRENGTH	2200 MPa
TENSILE STRENGTH	690 MPa

Issue	01	02	03	04	05	06	07	08	09
DCR	7135	30040	44682						



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CHEMICAL ANALYSIS		BENEFIT
Carbon	0.85/1.40	High % content: Good for hardening.
Chromium	0.4/0.6	Increases strength & depth of hardening.
Mang.	1.10/1.35	Decreases cooling rate, benefits hardening.
Vanadium	0.25 max	Increases strength, hardness & high temp. stability
Tungsten	0.40/0.60	Increases high temperature performance.

CURRENT INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH: BS	BS EN 4957: 2000: B01
GERMAN: DIN	17350
AMERICAN: ASTM	A681 or 01
EUROPEAN STEEL No.	1.2510
JAPANESE GRADE	JIS G 4404 SKS3
CHINESE GRADE	GB CrWMn

REPLACES

PRODUCT	BS4659 1989	COLOUR CODE		DESCRIPTION
GAUGE PL.	B01			Oil Hardened Tool Steel

Alternatives:

Alternative materials are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

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These sizes are given in good faith and should not be considered as definitive

Flats (mm)_Precision Ground										
Flatness: 0.2mm per 500mm										
thickness: - 0 / +0,05										
width: - 0 / +0,127										
2	50									
3	20	25	40	50			80	100	125	150 200
5	20	25	40	50	60	70	80	100		150
6	20	25	40	50	60	70	80	100		150 200
8		25	40	50				100		150
10	10	20	25	40	50	60	70	80	100	125 150 200
12		20	25	40	50		70	80	100	150
15			25		50	60			100	125
20		20	25	40	50	60	70		100	150
25			25				70	80	100	125 150 200
50					50				125	150

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