

TOOL STEEL: SILVER STEEL_ROUND**DSM 1.1.5****Definition:**

BS1407 Silver steel is so called because of its highly polished appearance created by the extremely fine surface finish. A versatile tool steel ground to very close tolerances.

Features:

This cold worked, high Carbon tool steel can be hardened (64Rc) to provide considerable wear resistance (however more brittle). The chromium content increases strength & hardenability enabling the ability to hold a sharp edge. Supplied as ground & annealed, for machining purposes, with tolerances similar to drill rod. Not recommended for welding.

ASM (DEK) Applications:

Custom dowels, bushes, spindles & shafts.

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:	201 GPa
POISSONS RATIO:	0.29
YIELD STRENGTH	690 MPa
TENSILE STRENGTH	750 MPa

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

Precision Ground Rounds (mm) :					Tolerance : < 25mm +0/ -0,012mm				
Surface Finish: (0,6 microns)					25mm < 50mm +0/ -0,025mm				
2	2.5	3	3,5	4	4.5	5	5,5	6	6,5
7	7,5	8	8,5	9	9,5	10	10,5	11	11,5
12	12,5	13	13,5	14	14,5	15	15,5	16	16,5
17	17,5	18	18,5	19	19,5	20	21	21,5	22
23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	45	50

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CHEMICAL ANALYSIS		BENEFIT
Carbon	0.95/1.25	High % content: Good for hardening.
Silicon	0,40 max	Increases purity/ quality. (principle deoxidizer)
Mang	0.25/0.45	Decreases cooling rate, benefits hardening.
Phos	0.45 max	Increases resistance to corrosion.
Chrome	0.35/0.45	Increases strength & depth of hardening.

CURRENT INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH: BS	BS 1407: 1970: Silver Steel
GERMAN: DIN	1.2210
AMERICAN: AISI	L2
EUROPEAN STEEL No.	----
JAPANESE GRADE	JIS G SKS43
CHINESE GRADE	----

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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