

Quality 56Si7

According to Standard EN 10089 : 2002

Number 1.5026



Comparable Standards	German DIN	France AFNOR	Spain UNE	China GB	U.K. B.S.	Russia GOST	USA AISI - SAE	Japan JIS
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55Si7	55S7	F.1440	55Si2Mn	251A58	5552 . 55C2	9255		
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Chemical Analysis	C% max	Si% max	Mn% max	P% max	S% max
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0.52 - 0.60	1.60 - 2.00	0.60 - 0.90	0.025	0.025	
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Hot Work and Heat Treatment Temperatures

Temperature °C

Hot - Forming	Supply State +U	Soft Annealing +A	End Quench Hardenability test	Normalising	Quenching	Hot Moulding	Tempering	Isothermal Annealing
1050 - 850	(HB max 293)	680 air	850	870 air	840 - 870	900 - 820	400 - 480	820 furnace cooling to 720, then air (HB max 240)
		(HB max 248)	water		oil or polymer		air	

Mechanical Properties at Room Temperature

Hot Rolled Mechanical Properties after Quenched at 860°C in oil & Tempering at 450°C air EN 10089 - 2002

Size d/t mm		Testing at Room Temperature (Longitudinal)									
From	To	R N/mm2	Rp 0.2 N/mm2	A% min.	C% min.	KU J min.	HRC	R N/mm2	R.P 0.2 N/mm2 min	A% min	DVM J min
10	10	1450 - 1750	1300	6	25	13	44 - 50	1300 - 1500	1100	6	14

EN 10089 : 2002 Jominy test HRC grain size 5 min. distance in mm from quenched extremly.

Symbol H	1.5	3	5	7	9	11	13	15	20	25	30
min	57	55	49	43	37	34	32	31	28	27	26
max	65	62	60	57	54	50	46	42	39	37	36