

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