

Quality 58CrV4

According to Standard (DIN 17221)

Number 1.8161



Comparable Standards German DIN France AFNOR Spain UNE China GB U.K. B.S. Russia GOST USA AISI - SAE Japan JIS

58CrV4 58CV4 6158

Chemical Analysis C% max Si% max Mn% max P% max S% max Cr% V%
 0.55 - 0.62 0.15 - 0.40 0.70 - 1.10 0.035 0.035 0.90 - 1.20 0.10 - 0.20

Hot Work and Heat Treatment Temperatures

Temperature °C

Hot - Forming	Supply State +U	Soft Annealing +A	End Quench Hardenebility test	Normalising	Quenching	Hot Moulding	Tempering	Isothermal Annealing
1050 - 850		680 - 720 furnace cooling (HB max 248)		850 - 880 air	830 - 850		480 - 650	
					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.	DVM J min.	Kv J min.	HB
	16	1320 - 1570	1080	7	40	21	22	384 - 438
	17	1180 - 1370	980	8	45	27	29	354 - 394
	41	1080 - 1270	885	10	50	34	36	327 - 373
	101	980 - 1180	735	12	55	41	44	295 - 354
	161	980 - 1180	735	12	55	41	44	295 - 354