

Quality C60E
 According to standards EN 10083-2: 2006
 Number 1.1221



Chemical composition

C% max 0.57-0.65	Si% 0.4	Mn% 0.60-0.90	P% max 0.03	S% max 0.035	Cr% max 0.4
	Mo% max 0.1	Ni% max 0.1	Cu% max -		

Temperature ▲°C

Hot-forming	Quenching	Tempering	Stress-relieving	Soft Annealing
1050-850	830-850 water, oil or polymer	550-650	50°C under the temperature	700 air
		air		(HB max 241)

Mechanical properties

Table of tempering values obtained at room temperature after quenching at 850°C in oil

HB	697	688	634	560	468	371
HRC	62.5	62	59	55	49	40
R N/mm2			2420	2070	1700	1250
Tempering at °C	50	100	200	300	400	500
Thermal Expansion	10 ⁻⁶ . K ⁻¹		11.1	12.1		19.9
Modulus of elasticity long.	GP a	210			197	
Modulus of elasticity tang.	GP a	80			76	
Specific heat capacity	J/(kg.K)	460				
Density	kg/dm3	7.85				
Thermal Conductivity	W/(m.K)	46				
Specific electric resistivity	ohm.mm2/m	0.13				
Electrical conductivity	Siemens.m/mm2	7.69				
°C		20	100	200	250	300