

Quality Cf53
According to standards DIN 17212:1972
Number 1.1213



Equivalent	Italy UNI	China GB	Germany DIN	UK	USA AISI/SAE
	C53		Cf53	070M55	1050

Chemical composition

C%	Si%	Mn%	P%	S%	Cr%	Mo%
max			max	max	max	max
0.50-0.57	0.15-0.35	0.40-0.70	0.025	0.035	-	-

Temperature ▲°C

Hot-forming	Quenching	Tempering	Stress Relieving	Soft Annealing
1050-850	830-860	550-660	180	700 air
	oil or polymer or water	air		HB max 223

Mechanical properties

Hot Rolled (+QT) DIN 17212:1972

Testing at room temperature (longitudinal)

size d/t	R (N/mm2 min)	Rp 0.2 N/mm2	A% min	C%	Kv	HB
mm						
16	740-880	510	12	25		224-263
16 to 40	690-830	430	14	35		210-249
40 to 100	640-780	400	15	40		198-232

Hot Rolled (normalized) DIN 17212:1972

Testing at room temperature (longitudinal)

size d/t	R (N/mm2 min)	Rp 0.2 N/mm2	A% min	C%	Kv	HB
mm						
16 to 100	610-760	340	16			183-226

Cold drawn +QT+C 070M55 BS 970 pt.3: 1991

Testing at room temperature (longitudinal)

size d/t	R (N/mm2 min)	Rp 0.2 N/mm2	A% min	C%	Kv	HB
mm						
13 to 29	700-850	475	10			201-255
29 to 100	700-850	435	10			201-255