



WINTRADE S.r.l.
CHROME PLATED BARS • STEEL TUBES • SPECIAL STEELS

C53 (Cf53)

Induction Hardened Linear Shafts

According to: **DIN 17212**

Chemical analysis

C	Mn	Si	P	S	Cr	Mo	Ni
0,50÷0,57	0,40÷0,70	0,15÷0,35	≤0,025	≤0,035			

Mechanical properties at room temperature

Base Material	Diameter Ø mm.	Rp0,2 min. N/mm ²	Rm N/mm ²	A min. %	AvRT	J	HB
Cold drawn	4 < Ø ≤ 16	340	610 ÷ 760	16			183 ÷ –
Hot rolled + Peeled+ SH	16 < Ø ≤ 100	340	610 ÷ 760	16			183 ÷ –

Tolerance: ISO h6

Diameter Range : Diam. 4 - 100 mm.

Surface roughness: Ra - max. 0,20 µm (Medium statistic 0,05 – 0,15 µm)

Induction Hardness: 62 ± 2 HRC

Hardening Depth: 0,5 - 4 mm. According diameter

General properties and applications

Cf53 Induction hardened linear shafts present a soft shaft core which ensures a good resilience. Cf53 Linear shafts are used as piston rods for pneumatic cylinders as well as in all linear applications.