



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

# C45E (CK45)

50my chromed bar

According to EN 10088

Corrosion Resistance

ISO 9227 NSS Rating 9 ≥ 500 h

Chemical analysis

C	Mn	Si	P	S	Cr	Mo	Ni
0,42±0,50	0,50±0,80	≤0,40	≤0,030	≤0,035	≤0,40	≤0,10	≤0,40

### Mechanical properties at room temperature

Base material	Diameter Ø mm.	Rp0,2 min. N/mm <sup>2</sup>	Rm N/mm <sup>2</sup>	A min. %	AvRT J	HB
Cold drawn	≤10	565	750±1050	5		225±319
Cold drawn	10<Ø≤16	500	710±1030	6		218±311
Hot rolled + Peeled+ SH	16<Ø≤100	305	580±	16		172±
Hot rolled + Peeled+ SH	100<Ø≤250	275	560±	16		162±

Tolerance: ISO f7

Diameter range: diam. 20 - 1000 mm

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

Chromium thickness: Ø < 20 mm = min. 50 µm

Chromium hardness: min. 900 HV

### General properties and applications

CK45 chromed bar 500 h is used by hydraulic industries extensively. It is employed to resist to hard corrosion.

Typical applications are: tools in contact with chemical substances, compressors, car jacks and other transport lifting equipment, food processing equipment, hoists, mining and other earth moving equipment, machine tools, mechanical tools and equipment, rods and shafts (various), waste disposal transport and equipment etc.