



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

42CrMo4 +QT

25my chromed bar

According to EN 10083-3:2006

Corrosion Resistance

ISO 9227 NSS Rating 9 ≥ 200 h

Chemical analysis

C	Mn	Si	P	S	Cr	Mo	Ni
0,38±0,45	0,60±0,90	≤0,40	≤0,025	≤0,035	0,90±1,20	0,15±0,30	–

Mechanical properties at room temperature

Base material	Diameter Ø mm.	Rp0,2 min. N/mm ²	Rm N/mm ²	A min. %	KV min. (J)	C min. (%)	HB max
Hot Rolled	16÷40	750	1000±1200	11	35	45	298÷359
Hot Rolled	40÷100	650	900±1100	12	35	50	271÷331
Hot Rolled	100÷160	550	800±950	13	35	50	240÷286
Hot Rolled	160÷250	500	750±900	14	35	55	225÷271

Tolerance: ISO f7

Diameter range: diam. 16 - 1000 mm

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

Chromium thickness: Ø < 20 mm = min. 15 µm Ø ≥ 20 mm = min. 20 µm

Chromium hardness: min. 900 HV

General properties and applications

42CrMo4 hard chromed bar is used by hydraulic industries extensively, especially when they need hard mechanical properties.

It's employed by other industrial sectors for a wide range of exploitations.

Typical applications are: agricultural equipment, compressors, car jacks and other transport lifting equipment, 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.