



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

# 20MnV6

25 my chromed bar

According to EN 10088

Corrosion Resistance

ISO 9227 NSS Rating 9 ≥ 120 h

Chemical analysis

C	Mn	Si	P	S	Cr	V	Ni
0,16÷0,22	1,30÷1,70	0,10÷0,50	≤0,035	≤0,035	-	0,08÷0,20	-

### Mechanical properties at room temperature

Base material	Diameter $\phi$ mm.	Rp0,2 min. N/mm <sup>2</sup>	Rm min. N/mm <sup>2</sup>	A min. %	AvRT J	HB
Cold drawn	6 < $\phi$ ≤ 25	620	700	10	-	213 ÷ 260
Hot rolled + Peeled+ SH	19 < $\phi$ ≤ 80	460	600	18	-	159 ÷ 172
Hot rolled + Peeled+ SH	80 < $\phi$ ≤ 160	42	550	18	-	159 ÷ 172

Tolerance: ISO f7

Diameter range: diam. 5 - 1000 mm.

Surface roughness: Ra - max. 0,20  $\mu$ m (statistical average 0,05 – 0,15  $\mu$ m)

Chromium thickness:  $\phi$  < 20 mm = min. 15  $\mu$ m  $\phi$  ≥ 20 mm = min. 20  $\mu$ m

Chromium hardness: min. 900 HV

### General properties and applications

**20MnV6 chromed bar** is employed for piston rods of standard hydraulic cylinders that need an excellent machinability and weldability. It's recommended by our technical department at low temperature environments.