



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

# WiCrom1000®

According to EN 10088  
Corrosion Resistance

ISO 9227 NSS Rating 9 ≥ 1000 h

Chemical analysis

C	Mn	Si	Cr	Ni	Mo	Others
12±22	≤1,50	≤1,00	15,00±17,00	1,50±2,50	—	S≤030 / P≤040

## Mechanical properties at room temperature

Condition	Ø mm	Rp0,2 min. N/mm <sup>2</sup>	Rm N/mm <sup>2</sup>	A min. %	KV min. J	HB hardness max.
QT 800	≤60	600	800±950	14	25	
	60<Ø≤160			12	20	
QT 900	≤60	700	900±1050	12	20	
	60<Ø≤160			10	15	
Annealed			Max 950			295

## High temperatures mechanical properties

Condition	Temperature C°	100	150	200	250	300	350	400
QT 800	Rp0,2 min. N/mm <sup>2</sup>	515	495	475	460	440	405	355
QT 900	Rp0,2 min. N/mm <sup>2</sup>	365	525	505	490	470	430	375

## Physical properties

Density	Modulus of elasticity					Thermal expansion between 20°C and				Thermal cond. at specific heat resistivity		
	20 °C 100 °C 200 °C 300 °C 400 °C					100 °C 200 °C 300 °C 400 °C				20 °C	a 20 °C	a 20 °C
	kg/dm <sup>3</sup>	kN / mm <sup>2</sup>					10 <sup>-6</sup> x K <sup>-1</sup>				W m x k	J kg x K
7,7	215	212	205	200	190	10.1	10.5	10.5	10.5	25	460	0.70

## General properties and applications

Martensitic hardenable steel combines good tensile strength with equally corrosion resistance. It isn't usually used for welded parts, it must be preheated to 300-400 °C and stress relieved immediately after welding. It is normally used for valves, pump and propeller shafts, compressors and centrifuges.