



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

# AISI 316/316L

**W.1.4404/1.4401**  
*25my chromed bar*

According to EN 10088

Corrosion Resistance

ISO 9227 NSS Rating 9 ≥ 3000 h

Chemical analysis

C	Mo	Mn	Si	P	S	Cr	N	Ni
≤0,03	2,00±2,5	≤2,00	≤1,00	≤0,045	≤0,030	16,5±18,50	≤0,11	10,00±13,00

### 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. %	KV min. (J)	HB
Cold drawn	≤10	400	600÷930	25	-	-
Cold drawn	10<Ø≤16	380	580÷930	25	-	-
Hot Rolled+Peeled+SH	16<Ø≤40	200	500÷830	30	100	-
Hot Rolled+Peeled+SH	40<Ø≤63	200	500÷830	30	100	-
Hot Rolled+Peeled+SH	63<Ø≤100	200	500÷700	40	100	-

Tolerance: ISO f7

Diameter range: diam. 2 - 1000 mm

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

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

Chromium hardness: min. 900 HV

### General properties and applications

**AISI 316 chromed bar** can be used for hydraulic cylinder in marine application or anywhere you need corrosion resistance.

The steel grade W.1.4404 / 1.4401 (also called ASTM 316/ 316L ) is a stainless "acid-proof" steel easy to be machined.

It's suitable for production of corrosion resistant products, thanks to the improved machinability.

W.1.4404 has a very good corrosion resistance that make it useful within a wide range of areas. It has an improved resistance to pitting and crevice corrosion in environments containing chlorides, due to the addition of molybdenum.

It is non-magnetic but may become somewhat magnetic after cold working and welding.