



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

# Tubes

chromed outside  
H9 inside

According to EN 10305-2

Corrosion Resistance

ISO 9227 NSS Rating 9 ≥ 120 h

Chemical analysis

C	Mn	Si	P	S	Al
≤0,22	≤1,60	≤0,55	≤0,025	≤0,025	≤0,020

## Mechanical properties at room temperature

Steel grade	According to	Rp0,2 min. N/mm <sup>2</sup>	Rm N/mm <sup>2</sup>	A min. %	AvRT J	HB
E355+C+SR	EN 10305-2	355	640	4	-	-

**Internal Diameter Tolerance:** H9

**Outside Diameter Tolerance:** f7

**Thickness Tolerance:** + / - 3%

**Internal roughness:** Ra - max. 0,80 µm (statistical average 0,20 – 0,50 µm)

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

**Chromium Hardness:** min. 900 HV

**Diameter Range:** outside diam. 20- 100 mm (others on request)

**Thickness Range:** 2,5 / 3 / 3,5 / 4 / 5 / 6 / 7,5 mm (others on request)

**Bars length :** 4000 / 12.000 mm

**Eddy current test:** 100% checked found ok

**Marking:** Dimension - Heat treatment- Steel grade- Heat number & Logo

**Protection:** PVC or cardboard tube outside, oiled inside, cap on the head

## General properties and applications

**Chromed outside H9 inside TUBES** are used for telescopic hydraulic cylinders. The chromed surface is resistant to corrosion and wear. The internal cold drawn process is a complex and that increases the roughness quality of the surface and creates an internal mirror surface.