

Average Chemical analysis

C%	Si%	Mn%	P%	S%	C.E.(*)
0.19	0.31	1.44	0.014	0.02	0.43

*CE=%C+%Mn/6+(%Cu+%Ni)/15+(%Cr+%Mo+%V)/5

Mechanical Properties

Size	Yield Strength <i>ReH N/mm²</i>	PSI	Tensile Strength <i>Rm N/mm²</i>	Elong. <i>A5%</i>
AllΦ	≥520	≥75000	≥620	15%min

On request material with guaranteed impact test 27.5 J at -20°C can be provided.

Corresponding standards

ASO	EN	DIN	AFNOR	SAE/ASTM
A-TUBE TUCI	E355	St52-3	E36-4	1024

Tolerance range according to ISO 286-2

Table for ISO H8 in μm

ID (mm)	upper	lower
30-50	+62	0
>50-80	+74	0
>80-120	+87	0
>120-180	+100	0
>180-250	+115	0

Heat treatment

The tubes are delivered in stress and relived condition (+SR according to EN). On request other heat treatments can be offered.

Chrome Layer

Minimum 20 µm.
Special applications: concrete pumps, cylinders
max. 200µm.

Inside Surface Roughness

The inside surface roughness (Ra) for internal chromed tubes is maximum 0.40 µm.

Straightness

The straightness deviation is maximum 1mm / 1000 mm.

Ovality

The ovality is within the limits of the ID tolerance.

Tolerance

ISO H9 (EN ISO 286-2)

Packaging

Tubes are packed in standard bundles palletized, oiled inside.
On demand we can provide also wooden boxes.



Our products packaging
is recyclable

Corrosion Resistance

The chromium layer generated in hard-chrome plating process contains micro-cracks, our A-CHROME products are made by a controlled distribution of cracks. Special pre-finishing surface and polishing after chroming ensure a very high corrosion resistance. The Corrosion resistance for hard chrome plated bars are based on a salt spray test following the ISO 9227 standard combined with the ISO 10289 for the evaluation of the rating.

ISO9227	ASTM	DIN50021	Salt Spray Test
NSS	B117	SS	Neutral Salt Spray
AASS	B287	ESS	Acetic Acid Salt Spray
CASS	B368	CASS	Copper-accelerated acetic acid salt spray

Salt spray tests we are capable to perform internally.

Lengths

up to 2500 mm

ASOCHROME series

Standard corrosion resistance is R9/500h in NSS.

Certifications

ISO 9001

ISO 14001

OHSAS 18001