

HV03

Hard chrome plated barsteel of stainless steel AISI 431

General

Hard chrome plated barsteel of stainless steel AISI 431.
The bars are ready to use and have a diameter tolerance of f7.
The chrome layer thickness has minimum 20 µm.
The surface roughness (Ra) is maximum 0,2 µm (cut-Off 0,8 mm).
The surface hardness is minimum 900 HV.

The hard chrome plated bars will be mainly used as pistonrods for hydraulic and pneumatic cylinders.

Mechanical properties

Yieldstrength : $\geq 600 \text{ N/mm}^2$
Tensile strength : $800\text{-}950 \text{ N/mm}^2$
Elongation (A5) min. % : $\geq 14\%$

Out of roundness

Maximum 1/2 of the diameter tolerance.

Straightness

For diameters $\geq 30 \text{ mm}$: maximum deviation of 0,2 mm per 1000 mm
($< 30 \text{ mm}$: 0,3 mm per 1000 mm).

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