

HV04

Hard chrome plated barsteel TiRun 327/42CrMo4V

General

Hard chrome plated barsteel TiRun 327/42CrMo4V.

The bar is ready to use and has a diameter tolerance of f7.

The thickness of the chrome layer is minimum 20µm; sizes < 20 mm minimum 15µm.

The surface roughness (Ra) is maximum 0,2µm (cut-off 0,8 mm).

The surface hardness is minimum 800HV.

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

In an aggressive environment, like the process industry, in the mining industry, along the shore, on the roads and in the offshore-industry, one could use chrome plated stainless steel bars or nickel chrome plated bars.

Corresponding norms

DIN 42CrMo4V

AFNOR 42CD4

Mechanical properties 280X

Diameter in mm

	≤ 40	> 40
Yieldstrength N/mm ²	≥ 750	≥ 650
Tensilestrength N/mm ²	1000-1200	900-1100
Elongation (A5) min. %	≥ 11	≥ 11
Hardness HB	295-355	265-325

Chemical analysis

C%	Si%	Mn%	Cr%	Mo%
0,42	0,25	0,75	1,05	0,20

Straightness

For diameters ≥ 30 mm: maximum deviation of 0,2 mm per 1000 mm
(< 30 mm: 0,3 per 1000 mm).

Out of roundness

Maximum 1/2 of the diameter tolerance.

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