

Chrome plated Steel bars 42CrMo4QT Technical Properties.

- **Diameter Tolerance** Standard is ISO-f7. We can provide special tolerance at premium price.
- **Residual Magnetism** Standard is Max. 50 Gauss.
- **Roundness** – max ½ from the diameter tolerance (½ tol.f7).
- **Surface Roughness** is Ra = max 0.20 µm.
- **Surface Hardness** – Chrome Layer hardness is 800-1000 HV0,1.
- **Straightness** is max 0,3 [mm]/1000 [mm] .
- **Chrome Layer thickness** for $\varnothing \leq 19.05$ [mm] is min. 15[µm] and for $\varnothing > 20$ [mm] is minimum 20[µm].

Chrome plated steel bars 42CrMo4QT corrosion resistance.

- Standard Corrosion Resistance for $\Phi < 20$ is R9/120h and for $\Phi \geq 20$ is R9/200h according to NSS tests.
- We can provide higher layer or double chrome layer at premium price.

Corrosion Test standards table.

ISO9227	ASTM	DIN50021	Salt Spray Test
NSS	B117	SS	Neutral Salt Spray
AASS	B287	ESS	Acetic Acid Salt Spray

Steel grade correspondents table.

EN	DIN	BS	AFNOR	ASTM
42CrMo4+QT	42CrMo4V	708M40	42CD4	4140

Chemical Composition table 42CrMo4QT according to EN 10083-3 : 2006.

C	Si	Mn	P	S	Cr	Mo
0.38	Max	0.60	Max	Max	0.90	0.15
0.45	0.40	0.90	0.030	0.040	1.20	0.30

Mechanical Properties table 42CrMo4QT according to EN 10083-3 : 2006.

Diameter Ø (mm)	Tensile Strength Rm (N/mm ²)	Yeld Point Rp02 (N/mm ²)	Elongation A5 (%)	Hardness Brinell HB
<Ø≤16	1100-1200	Min. 750	Min.8	298-359
16<Ø≤40	1000-1200	Min. 750	Min.11	298-359
40<Ø≤100	900-1100	Min. 700	Min.12	271-331
100<Ø≤160	800-950	Min. 550	Min.13	240-286
160<Ø≤250	750-900	Min. 500	Min.14	225-271
250<Ø≤500	Min. 600	Min. 390	Min.16	178 min

Standard packaging is made with plastic sleeves or cardboard tubes (depending on the product's diameter).

As an Extra protection with additional cost we can provide also wooden boxes.