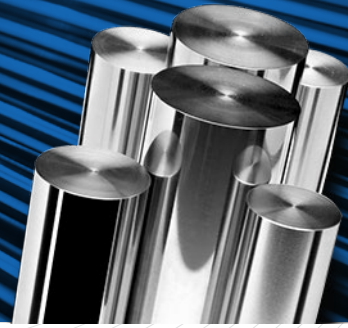


THALACHROME S

STANDARD

Diameter 16 - 160 mm



STEEL GRADES

C45E, 20MnV6, 38MnVS6, C35E

CHEMICAL ANALYSIS

Elements	C (%)	Si (%)	Mn (%)	S (%)	P (%)	V (%)	Cr (%)	Mo (%)	Ni (%)	N (%)	WERKSTOFF
C45E	0.42-0.50	≤ 0.40	0.50-0.80	≤ 0.035	≤ 0.035	-	≤ 0.40	≤ 0.10	≤ 0.40	-	1.1191
20MnV6	0.16-0.22	0.10-0.50	1.30-1.70	≤ 0.035	≤ 0.035	0.08-0.20	-	-	-	-	1.5217
38MnVS6	0.34-0.41	0.15-0.80	1.20-1.60	≤ 0.035	≤ 0.025	0.08-0.20	≤ 0.30	≤ 0.08	-	0.010-0.020	1.1303
C35E	0.32-0.39	≤ 0.40	0.50-0.80	≤ 0.035	≤ 0.035	-	≤ 0.40	≤ 0.10	≤ 0.40	-	1.1181

For steel grades C45E and C35E : Cr + Mo + Ni ≤ 0.63%

MECHANICAL PROPERTIES

Steel grade	Range Ø	Yield point (N/mm ²)	Tensile strength (N/mm ²)	Elongation %	PSI
C45E	Ø 16 mm	≥ 340	≥ 620	≥ 10	45,000
	18 ≤ Ø ≤ 95 mm	≥ 305	580 - 850	≥ 16	45,000
	95 < Ø ≤ 160 mm	≥ 275	560 - 800	≥ 16	40,000
20MnV6	Ø 16 mm	≥ 450	550 - 850	≥ 10	65,000
	18 ≤ Ø < 20 mm	≥ 450	550 - 850	≥ 17	65,000
	20 ≤ Ø ≤ 65 mm	≥ 450	550 - 850	≥ 18	65,000
	65 < Ø ≤ 160 mm	≥ 390	530 - 850	≥ 21	55,000
38MnVS6	16 ≤ Ø ≤ 160 mm	≥ 520	800 - 950	≥ 12	75,000
C35E	16 ≤ Ø ≤ 36 mm	≥ 315	560 - 750	≥ 18	45,000
	36 < Ø ≤ 160 mm	≥ 275	560 - 760	≥ 19	40,000

TOLERANCE

- Ø 16 mm : f8
- Ø 18 à 160 mm : f7

CHROME THICKNESS

- Ø 16 à 18 mm : 14 µm mini
- Ø 19.05 à 160 mm : 20 µm mini

CHROMIUM PLATING

- Hardness : 900 Hv_{0.1} min
- Microcracking : 5000 microcracks /mm² mini

SURFACE ROUGHNESS

- Ra : 0.07 à 0.20 µm
- Ry : 2.5 µm maxi

STRAIGHTNESS

- 0.2 mm/m maxi

STANDARD LENGTH

- 4,5 à 7,8 m

CORROSION RESISTANCE

Neutral salt spray test according to ISO 9227 - Evaluation according to ISO 10289 :

Rating 10 (no point of rust)	Rating 9 (less than 0.1 % of the surface corroded)
96h00 mini NSS rating 10	312h00 mini NSS rating 9

Acetic spray test according to ISO 9227 - Evaluation according to ISO 10289 :

-	Rating 9 (less than 0.1 % of the surface corroded)
-	48h00 ASS