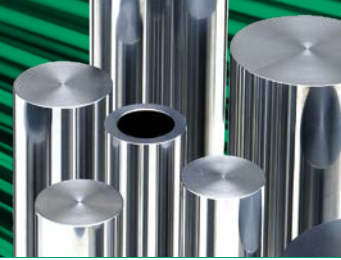


THALACHROME SE 500

HIGH CORROSION RESISTANCE

Diameter 20 - 125 mm



STEEL GRADES

C45E | C35E | 20MnV6 | 20MnV6X | 38MnVS6 | 38MnVS6X | 42CrMo4V

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
C35E	0.32-0.39	≤ 0.40	0.50-0.80	≤ 0.035	≤ 0.035	-	≤ 0.40	≤ 0.10	≤ 0.40	-	1.1181
20MnV6-20MnV6X	0.16-0.22	0.10-0.50	1.30-1.70	≤ 0.035	≤ 0.035	0.08-0.20	-	-	-	-	1.5217
38MnVS6-38MnVS6X	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
42CrMo4V	0.38-0.45	≤ 0.40	0.60-0.90	≤ 0.035	≤ 0.035	-	0.90-1.20	0.15-0.30	-	-	1.1181

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

MECHANICAL PROPERTIES

Steel grade	Range Ø (mm)	Yield point (N/mm ²)	Tensile strength (N/mm ²)	Elongation %	PSI
C45E	20 ≤ Ø ≤ 95	≥ 305	580 - 850	≥ 16	45 000
	95 < Ø ≤ 125	≥ 275	560 - 800	≥ 16	40 000
C35E	20 ≤ Ø ≤ 36	≥ 315	560 - 750	≥ 18	45 000
	36 < Ø ≤ 125	≥ 275	560 - 760	≥ 19	40 000
20MnV6	20 < Ø ≤ 65	≥ 450	550 - 850	≥ 18	65 000
	65 < Ø ≤ 125	≥ 390	530 - 850	≥ 21	55 000
20MnV6X	20 ≤ Ø ≤ 70	≥ 520	650 - 800	≥ 19	75 000
	71 ≤ Ø ≤ 90	≥ 520	650 - 800	≥ 21	75 000
	91 ≤ Ø ≤ 125	≥ 440	550 - 750	≥ 21	64 000
38MnVS6	20 ≤ Ø ≤ 125	≥ 520	800 - 950	≥ 12	75 000
38MnVS6X	25 ≤ Ø ≤ 125	≥ 580	850 - 1000	≥ 14	84 000
42CrMo4V	20 ≤ Ø ≤ 40	≥ 750	1000 - 1200	≥ 11	100 000
	41 ≤ Ø ≤ 100	≥ 650	900 - 1100	≥ 12	95 000
	101 ≤ Ø ≤ 125	≥ 550	800 - 950	≥ 13	80 000

TOLERANCE

- Ø 20 to 28.575 mm : f8
- Ø 30 to 125 mm : f7

CHROME THICKNESS

- Ø 20 to 125 mm : 30 µm mini

CHROMIUM PLATING

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

SURFACE ROUGHNESS

- Ra : 0.15 µm maxi
- Rt : 1.5 µm maxi

STRAIGHTNESS

- 0.2 mm/m maxi

STANDARD LENGTH

- 4,5 - 7,8 m

CORROSION RESISTANCE

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

Rating 10
(no point of rust)

500h00 mini NSS rating 10

Rating 9
(less than 0.1 % of the surface corroded)

1008h00 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)

-

200h00 ASS