

## Bare cromate si Tevi honuite

Various applications Hard chrome plated bars and tubes have a lot of appliances starting from hydraulic industry and going also to the fitness equipment or even a simple office chair.

Due to their chrome layer, this kind of products can be successfully used under extreme conditions like chemical industry with exposure to aggressive agents, mining equipment, oil and gas industry, power generation, aerospace industry and the marine environment.

Product overview		Type		Description							
CB	Hard Chrome Plated Steel Bars	Steel grade:	C45E, 20MnV6, 38MnVS6, 42CrMo4								
CROMEST ICB	Induction Hardened and Hard Chrome Plated Steel Bars	Steel grade:	C45E, 20MnV6, 38MnVS6, 42CrMo4								
CROMEST HR	Hard Chrome Plated Steel Bars for High Resistance	Steel grade:	C45E, 20MnV6, 38MnVS6, 42CrMo4								
Steel grades correspondences		EN									
Werkstoff	DIN	B.S.	UNI	GOST	JIS	AISI / SAE / ASTM	C45E	1.1191			
Ck45	080M46	C45	45	S45C	1045	20MnV6	1.5217	20MnV6	55M	-	
-	-	A572	38MnVS6	1.1303	38MnSiVS5	-	-	-	10v45	-	
42CrMo4	1.7225	42CrMo4	708M40	42CrMo4	40ChFa	SCM440(H)	4140				
Chemical composition		Steel grade		C (%)		Si (%)		Mn (%)		P (%)	
(%)	Cr (%)	Mo (%)	Ni (%)	V (%)	N (%)	C45E	0.42÷0.50	max. 0.40			
0.50÷0.80	max. 0.30	max. 0.35	max. 0.40	max. 0.10	max. 0.10	max. 0.40	-	-	-	-	20MnV6
0.16÷0.22	0.10÷0.50	1.30÷1.70	max. 0.35	max. 0.35	-	-	-	0.10÷0.20	-	-	-
38MnVS6	0.34÷0.41	0.15÷0.80	1.20÷1.60	max. 0.25	0.20÷0.60	max. 0.30	max. 0.80				-
-	-	42CrMo4	0.38÷0.45	max. 0.40	0.60÷0.90	max. 0.25	max. 0.35	0.90÷1.20			-
0.15÷0.30	-	-	-	*42CrMo4+QT (42CrMo4V)		Mechanical proprieters		Steel grade			
Diameter mm		Tensile strength Rm N/mm 2		Yield point Rp 0.2 mm		Elongation A5 %		Norm			
C45E	10<Ø&le;16	16<Ø&le;40	20<Ø&le;80	min. 710	min. 650	min. 580	min. 500	min. 410	min. 305		
min. 5	min. 7	min. 16	EN 10277-5	EN 10277-5	EN 10083-2	20MnV6	10<Ø&le;20	20<Ø&le;80			
min. 700	min. 600	min. 620	min. 460	min. 10	min. 18	Technical data according to internal norm					
38MnVS6	20<Ø&le;80	min. 800	min. 520	min. 12	EN 10267	42CrMo4	10<Ø&le;16				
16<Ø&le;40	40<Ø&le;80	min. 1100-1300	min. 1000-1200	min. 900-1100	min. 900	min. 750	min. 650				
min. 10	min. 11	min. 12	EN 10083-3								

\*42CrMo4+QT (42CrMo4V)