

STAR CBB Chrome Plated Steels Bar
 DIAMETER 5 - 130 mm

STEEL GRADES

Steel Grade	DIN	B.S	UNI	JIS	GOST	ASI/SAE/ASTM	Werkstoff
38MnVS6	38MnSiVS5		-	- -	-	(15V41)*	1,1303

CHEMICAL COMPOSITION - IN % BY WEIGHT

Steel Grade	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	N
38MnVS6	0.34-0.41	0.15-0.80	1.20-1.60	≤0.025	0.20-0.60	≤0.30	≤0.08	-	-	0.08-0.20	0.01-0.02
38MnVS6x	0.34-0.41	0.15-0.80	1.20-1.60	≤0.025	≤0.060	≤0.30	≤0.08	-	-	0.08-0.20	0.01-0.02

MECHNICAL PROPERTIES

Steel Grade	Diameter	Tensile Strength N/mm ²	Yield Strength N/mm ²	Elongation A%	Impact Energy J/Min.	Hardness Brinell N/mm ²	Norm	Tristar Steel Product Code
38MnVS6	20<Ø≤120	800-950	Min. 520	Min. 19	-	240-290	EN 10267	STAR CBB
	120<Ø≤200						EN 10267	
38MnVS6x	20<Ø≤90	850-1000	Min. 580	Min. 14	-	240-290	Internal Norm	STAR CBBX

STRAIGHTNESS

6 ≤ Ø ≤ 10mm: Max. 0.3 mm/1000 mm
 12 ≤ Ø ≤ 18mm: Max. 0.25 mm/1000 mm
 20 ≤ Ø ≤ 130 mm: Max. 0.20 mm/1000 mm

ROUNDNESS

Max. ½ from Dia. Tolerance

CHROME LAYER THICKNESS

Ø < 20 mm: min. 15 µm
 Ø ≥ 20 mm: min. 20 µm

STANDARD LENGTH

5800 - 7500 mm
 (Available on request)

SURFACE ROUGHNESS

Ra: max. 0.15 µm; Rt: max. 1.2 µm

CHROME LAYER MICROHARDNESS

900 HV0.1

TOLERANCE

f7, other on request

CORROSION RESISTANCE

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

RATING 10 (NO RUST)

Ø < 20 mm: 144 hours min.
 Ø ≥ 20 mm: 200 hours min.