

**STAR CBA** Chrome Plated Steels Bar  
 DIAMETER 5 - 130 mm

**STEEL GRADES**

Steel Grade	DIN	B.S	UNI	JIS	GOST	ASI/SAE/ASTM	Werkstoff
-	20MnV6	55M	-	-	-	A572	1,5217

**CHEMICAL COMPOSITION - IN % BY WEIGHT**

Steel Grade	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	N
20MnV6	0.16-0.22	0.10-0.50	1.30-1.70	≤0.035	≤0.035	-	-	-	-	0.08-0.20	-
20MnV6x	0.16-0.22	0.10-0.50	1.30-1.70	≤0.035	≤0.035	-	-	-	-	0.08-0.20	-

**MECHANICAL PROPERTIES**

Steel Grade	Diameter	Tensile Strength N/mm <sup>2</sup>	Yield Strength N/mm <sup>2</sup>	Elongation A%	Impact Energy J/Min.	Hardness Brinell N/mm <sup>2</sup>	Norm	Tristar Steel Product Code
20MnV6	6<Ø≤25	Min. 600	Min. 520	Min. 10	-	213-260	Internal Norm	STAR CBA
	80<Ø≤130	Min. 550	Min. 440	Min. 18	27J / -20°C	155-220	EN 10277	
20MnV6x	20<Ø≤90	Min. 600	Min. 520	Min. 19	27J / -20°C	165-225	Internal Norm	STAR CBAX

**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.