

20MnCrS5

W.Nr. 1.7149

General size range Ø 16 – 1000 mm

Chemical composition	C=0,17-0,22	Si=max.0,40	Mn=1,10-1,40	P=max.0,035	S=0,020-0,040
	Cr=1,00-1,30	Ni=max.0,25	Mo=max.0,10	Cu=max.0,30	Al=min.0,020

Cu+10Sn=max.0,50% also available as 20MnCr5 with S=max.0,035%

Grade equivalents
Similar grades

- BS	- GB	20MC5 AFNOR	SMnC 420 H JIS	14221 CSN
5120 SAE	20MnCrS5 UNI	- SS	18ChG GOST	

Hot rolled Ø 16–310 mm	Tolerances	EN 10060	or +/- 1,3% of dN	or specific tol.
	Lengths	6 m +200/-0 mm	or 3 – 6 m	or specific lengths
	Heat treatment	+A EN 10084	or +TH EN 10084	or +FP EN 10084
	Surface defects	EN 10221/B	or max. 1,5%	or specific value
	US test	SEP 1921 3C/c	or EN 10308	or specific FBH eq.

Forged black Ø 250–1000 mm	Tolerances	DIN 7527/6	or specific tol.
	Lengths	3 – 6 m	or specific lengths
	Heat treatment	+A max. 217 HB	
	Surface defects	max. ½ the tol.	or specific depth
	US test	SEP 1921 3C/c	or specific FBH eq.

Forged turned Ø 250–850 mm	Tolerances	+3/-0 mm	or +4/-0 mm	or +5/-0 mm	or specific tol.
	Lengths	3 – 6 m	or specific lengths		
	Heat treatment	+A max. 217 HB			
	Surface defects	technically free	or specific depth		
	US test	SEP 1921 3C/c	or specific FBH eq.		

Other available products squares- flats-hexagons rolled, squares-flats-hexagons cold drawn, squares-flats forged, squares- flats forged and milled, square billets rolled, square billets CC cast

Mill's test certificate EN 10204/3.1 with all relevant data reg. chem. composition, mech. properties and results of testing

- supply range file - issued: 20.02.2009 rev. 1