

31CrMoV9

W.Nr. 1.8519

General size range Ø 16 – 1000 mm

Chemical composition	C=0,27-0,34	Si=max.0,40	Mn=0,40-0,70	P=max.0,025	S=max.0,035
	Cr=2,30-2,70	Mo=0,15-0,30	V=0,10-0,20	Cu=max.0,30	Al=min.0,020

Grade equivalents Similar grades	-	-	-	-	-
	BS	GB	AFNOR	JIS	CSN
	-	31CrMoV10	-	-	
	SAE	UNI	SS	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 10085	or +QT+SR EN 10085	
	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. 248 HB	or +QT+SR EN 10250-3 (1.7707)	
	Surface defects	max. ½ the tol.	or specific depth	
	US test	SEP 1921 3C/c	or specific FBH eq.	

Peeled Ø 16–100 mm	Tolerances	EN 10278 h9	or EN 10278 h11	or specific tol.
	Lengths	6 m +200/-0 mm	or specific lengths	
	Heat treatment	+A h9/ h11	or +QT+SR h11	
	Surface defects	max. 0,2 mm	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. 248 HB	or +QT+SR EN 10250-3 (1.7707)		
	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 forged, squares- flats forged and milled, square billets rolled, square billets CC cast
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Mill's test certificate	EN 10204/3.1 with all relevant data reg. chem. composition, mech. properties and results of testing
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- supply range file - issued: 20.02.2009 rev. 1