

Quality	21CrMoV5-7
According to Standard	EN 10269 : 2013 (E)
Number	1.7709



Comparable Standards	EN	W.N.
	21CrMoV5-7	1.7709

Chemical Analysis	C %	Si % max	Mn %	P% max
	0.17 to 0.25	≤ 0.40	0.40 to 0.80	0.025
	B	Cr %	Mo %	Ni %
	-	1.20 to 1.50	0.55 to 0.80	≤ 0.60
	S% max	Al _{tot}		
	0.03	≤ 0.030		
	V %	Others		
	0.20 to 0.35	-		

Guidance for Heat Treatment

Heat Treatment Symbol ^a	Normalizing, quenching or Solution annealing temperature °C	Type of cooling ^b	Tempering or precipitation treatment (and time) ^c °C
+ QT	880 to 950	a, o, w	680 to 720 (min. 2 h)

Mechanical Properties at Room Temperature

Heat Treatment Condition ^{a,b}	Hardness	Diameter ^c	Proof Strength	Tensile strength
	HBW max	d mm	R _{p0,2} Mpa min.	R _m Mpa
+ QT	-	d ≤ 160	550	700 to 850
+ S	255	-	-	-
+ AC	229	-	-	-
	Elongation after fracture	Reduction in area	Impact energy(ISO-V) at 20°C	
	A % min.	Z % min.	KV ₂ J min.	
+ QT	16	60	63	
+ S	-	-	-	
+ AC	-	-	-	