

Quality	42CrMo5-6
According to Standard	EN 10269 : 2013 (E)
Number	1.7233



Comparable Standards	EN	W.N.		
	42CrMo5-6	1.7233		
Chemical Analysis	C %	Si % max	Mn %	P% max
	0.39 to 0.45	≤ 0.40	0.40 to 0.70	0.025
	B	Cr %	Mo %	Ni %
	-	1.20 to 1.50	0.50 to 0.70	-
	S% max	Al _{tot}		
	0.035	-		
	V %	Others		
	-	-		

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	840 to 870	o	600 to 700

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 ≤ 100 100 < d ≤ 150	700 640	860 to 1060 850 to 1000
+ S	255			
+ A	241			
	Elongation after fracture	Reduction in area	Impact energy(ISO-V) at 20°C	
	A % min.	Z % min.	KV ₂ J min.	
	16	50	50	
	16	50	40	