

Quality	X17CrNi16-2	
According to Standard	EN 10088-3:2005 (E)	
Number	1.4057	

Comparable Standards	EN	W.N.	AISI
	X17CrNi16-2	1.4057	431

Chemical Analysis	C %	Si % max	Mn %	P% max	S%	Cr %
	0.12 - 0.22	1.00	≤ 1.50	0.04	≤ 0.030 <sup>b</sup>	15.0 - 17.0
	Cu	Mo %	Nb	Ni %	Others	
	—	—	—	1.50 - 2.50	—	

#### Hot Work and Heat Treatment Temperatures

Heat Treatment Symbol	Hot Forming		Annealing		Quenching		Tempering Temperature °C
	Temperature °C	Type of cooling	Temperature °C	Type of cooling	Temperature °C	Type of cooling	
+A <sup>c</sup>	1100 to 800	slow cooling	680 to 800	furn.,air	—	—	—
+QT 800 <sup>d</sup>	1100 to 800	slow cooling	—	—	950 to 1050	oil, air	750 to 800 + 650 to 700 <sup>d</sup>
+QT 900	1101 to 800	slow cooling	—	—	950 to 1050	oil, air	600 to 650

#### Mechanical Properties at Room Temperature

Heat Treatment Condition	Ø mm.	Hardness HB <sup>c</sup> max	Rp0,2 <sup>d</sup> min. N/mm2	Rm <sup>d</sup> N/mm2	A <sup>d</sup> min. %	KV min. J
+A	—	295	—	max 950	—	—
+QT 800	≤ 60 60 < t ≤ 160	—	600	800 to 950	14 12	25 20
+QT 900	≤ 60 60 < t ≤ 160	—	700	900 to 1050	12 10	20 15