

Quality	X14CrMoS17
According to Standard	EN 10088-3:2005 (E)
Number	1.4104



Comparable Standards	EN	W.N.	AISI
	X14CrMoS17	1.4104	430F

Chemical Analysis	C %	Si % max	Mn %	P% max	S%	Cr %
	0,10 to 0,17	1,00	≤ 1,50	0,040	0, 15 to 0,35	15,5 to 17,5
	Cu	Mo %	Nb	Ni %	Others	
	—	0,20 to 0,60	—	—	—	

#### Hot Work and Heat Treatment Temperatures

Heat Treatment Symbol	Hot Forming		Annealing		Quenching		Tempering
	Temperature °C	Type of cooling	Temperature °C	Type of cooling	Temperature °C	Type of cooling	Temperature °C
+A	1100 to 800	air	750 to 850	furn.,air	—	—	—
+QT 650	1100 to 800	air	—	—	950 to 1070	oil, air	550 to 650

#### Mechanical Properties at Room Temperature

Heat Treatment Condition	Ø	Hardness	Rp0,2 <sup>d</sup> min.	Rm <sup>d</sup>	A <sup>d</sup> min. %	KV min. J
	mm.	HB <sup>c</sup> max	N/mm2	N/mm2		
+A	—	220	—	max 730	—	—
+QT650	≤ 60	—	500	650 to 850	12	—
	60 < t ≤ 160				10	—