

Quality	X39Cr13						
According to Standard	EN 10088-3:2005 (E)						
Number	1.4031						
 KRANTI INDUSTRIAL METAL SUPPLIER LLP							
Comparable Standards	EN	W.N.	AISI				
	X39Cr13	1.4031	Type 420				
Chemical Analysis	C % max	Mn %	Si % max	P% max	Cr %	Ni %	Mo %
	0,36 to 0,42	≤ 1,00	1,00	0,040	12,5 to 14,5	—	—
	S%	Others					
	≤ 0,030 ^b	—					
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	slow cooling	750 to 850	furn., air	—	—
+QT 800	1100 to 800	slow cooling	—	—	950 to 1050	oil, air	650 to 700
Mechanical Properties at Room Temperature							
Heat Treatment Condition	Ø	Hardness	Rp0,2 ^d min.	Rm ^d	A ^d min. %	KV min. J	
	mm.	HB ^c max	N/mm2	N/mm2			
+A	—	245	—	max 800	—	—	
+QT 800	≤ 160	—	650	850 to 1000	10	12	