

Steel designation		Thickness t or diameter ^b d mm	Annealed		Heat treatment condition	Quenched + tempered				
Name	Number		R_m MPa max.	HBW ^c max.		$R_{p0.2}$ MPa min.	R_m MPa	A_5^d % min. (long.)	(tr.)	KV_2 J min. (long.) (tr.)
X20Cr13	1.4021	$\leq 10^e$	910	290	+QT800	700	800 to 1100	7	-	-
		$10 < t \leq 16$	910	290		650	800 to 1100	7	-	-
		$16 < t \leq 40$	850	260		650	800 to 1050	9	-	20
		$40 < t \leq 63$	800	250		650	800 to 1000	12	-	20
		$63 < t \leq 160$	760	230		650	800 to 950	12	-	16
X30Cr13	1.4028	$\leq 10^e$	950	305	+QT850	700	900 to 1150	7	-	-
		$10 < t \leq 16$	950	305		650	900 to 1150	7	-	-
		$16 < t \leq 40$	900	280		650	850 to 1100	9	-	12
		$40 < t \leq 63$	840	260		650	850 to 1050	9	-	12
		$63 < t \leq 160$	800	245		650	850 to 1000	10	-	15
X39Cr13	1.4031	$\leq 10^e$	950	305	+QT800	700	850 to 1100	7	-	-
		$10 < t \leq 16$	950	305		700	850 to 1100	7	-	-
		$16 < t \leq 40$	900	280		650	800 to 1050	8	-	12
		$40 < t \leq 63$	840	260		650	800 to 1000	8	-	12
		$63 < t \leq 160$	800	245		650	800 to 1000	10	-	12