

Table 16 — Mechanical properties for bright bars ^a at room temperature of heat-treated (see Table A.4) martensitic steels in conditions 2H, 2B, 2G or 2P

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.)	KV ₂ J min. (tr.)		
Standard grades											
X12Cr13	1.4006	≤ 10 ^e	880	280	+QT650	550	700 to 1000	9	-	-	
		10 < t ≤ 16	880	280		500	700 to 1000	9	-	-	
		16 < t ≤ 40	800	250		450	650 to 930	10	-	25	-
		40 < t ≤ 63	760	230		450	650 to 880	10	-	25	-
		63 < t ≤ 160	730	220		450	650 to 850	15	-	25	-
X12CrS13	1.4005	≤ 10 ^e	880	280	+QT650	550	700 to 1000	8	-	-	
		10 < t ≤ 16	880	280		500	700 to 1000	8	-	-	-
		16 < t ≤ 40	800	250		450	650 to 930	10	-	-	-
		40 < t ≤ 63	760	230		450	650 to 880	10	-	-	-
		63 < t ≤ 160	730	220		450	650 to 850	12	-	-	-
X20Cr13	1.4021	≤ 10 ^e	910	290	+QT700	600	750 to 1000	8	-	-	
		10 < t ≤ 16	910	290		550	750 to 1000	8	-	-	-
		16 < t ≤ 40	850	260		500	700 to 950	10	-	25	-
		40 < t ≤ 63	800	250		500	700 to 900	12	-	25	-
		63 < t ≤ 160	760	230		500	700 to 850	13	-	25	-