

Table 13 — Mechanical properties for bright bars ^a at room temperature of solution annealed ^b (see Table A.1) austenitic steels in conditions 2H, 2B, 2G or 2P

Steel designation		Thickness t or diameter ^c d mm	Solution annealed					
Name	Number		R _{p0,2} MPa min.	R _m MPa	A ₅ ^d % min.	(long.)	(tr.)	KV ₂ J min. (tr.)
Standard grades								
X2CrNi18-9	1.4307	≤ 10 ^e	400	600 to 930	25	-	-	-
		10 < t ≤ 16	380	600 to 930	25	-	-	-
		16 < t ≤ 40	175	500 to 830	25	-	100	-
		40 < t ≤ 63	175	500 to 830	30	-	100	-
		63 < t ≤ 160	175	500 to 700	45	-	100	-
		160 < t ≤ 250	175	500 to 700	-	35	-	60
X8CrNiS18-9	1.4305	≤ 10 ^e	400	600 to 950	15	-	-	-
		10 < t ≤ 16	400	600 to 950	15	-	-	-
		16 < t ≤ 40	190	500 to 850	20	-	-	-
		40 < t ≤ 63	190	500 to 850	20	-	-	-
		63 < t ≤ 160	190	500 to 750	35	-	-	-
X6CrNiCuS18-9-2	1.4570	≤ 10 ^e	400	600 to 950	15	-	-	-
		10 < t ≤ 16	400	600 to 950	15	-	-	-
		16 < t ≤ 40	185	500 to 910	20	-	-	-
		40 < t ≤ 63	185	500 to 910	20	-	-	-
		63 < t ≤ 160	185	500 to 710	35	-	-	-