

Table 12 — Mechanical properties at room temperature of heat-treated (see Table A.5) precipitation hardening steels in conditions 1C, 1E, 1D, 1X, 1G and 2D

Steel designation		Thickness t or diameter ^a d	Heat treatment condition ^b	Hard- ness ^c	0,2 %-proof strength	Tensile strength	Elongation after fracture	Impact energy (ISO-V)
Name	Number	mm max.		HBW max.	$R_{p0.2}$ MPa min.	R_m MPa	A % min. (long.)	KV ₂ J min. (long.)
Standard grades								
X5CrNiCuNb16-4	1.4542	100	+AT	360	-	max. 1200	-	-
			+P800	-	520	800 to 950	18	75
			+P930	-	720	930 to 1100	16	40
			+P960	-	790	960 to 1160	12	-
			+P1070	-	1000	1070 to 1270	10	-
X7CrNiAl17-7	1.4568	30	+AT ^d	255	-	max. 850	-	-
X5CrNiMoCuNb14-5	1.4594	100	+AT	360	-	max.1200	-	-
			+P930	-	720	930 to 1100	15	40
			+P1000	-	860	1000 to 1200	10	-
			+P1070	-	1000	1070 to 1270	10	-