

Table 6 - Mechanical properties for wall thicknesses up to 60 mm^a of austenitic steels in the solution annealed condition (+AT) and information about intergranular corrosion (continued)

Steel grade		Tensile properties at room temperature ^b					Impact properties ^b			Reference heat treatment conditions		Resistance to intergranular corrosion	
		Proof strength		Tensile strength	Elongation		Minimum average absorbed energy KV J			Solution temperature ^d	Cooling in ^e	f	Method in EN ISO 3651-2
Steel name	Steel number	$R_{p0,2}$ min	$R_{p1,0}$ min	R_m^c	A min (%)		at RT		at-196 °C				
		MPa	MPa	MPa	l	t	l	t	t				
X2CrNi18-9	1.4307	180	215	470-670	40	35	100	60	60	1000-1100	w, a	yes	A
X2CrNi19-11	1.4306	180	215	460-680	40	35	100	60	60	1000-1100	w, a	yes	A
X2CrNiN18-10	1.4311	270	305	550-760	35	30	100	60	60	1000-1100	w, a	yes	A
X5CrNi18-10	1.4301	195	230	500-700	40	35	100	60	60	1000-1100	w, a	yes ^g	A
X6CrNiTi18-10	1.4541	200	235	500-730	35	30	100	60	60	1020-1120	w, a	yes	A
X6CrNiNb18-10	1.4550	205	240	510-740	35	30	100	60	60	1020-1120	w, a	yes	A
X2CrNiMo17-12-2	1.4404	190	225	490-690	40	30	100	60	60	1020-1120	w, a	yes	A
X5CrNiMo17-12-2	1.4401	205	240	510-710	40	30	100	60	60	1020-1120	w, a	yes ^g	A
X6CrNiMoTi17-12-2	1.4571	210	245	500-730	35	30	100	60	60	1020-1120	w, a	yes	A
X2 CrNiMo 17-12-3	1.4432	190	225	490-690	40	30	100	60	60	1020-1120	w,a	yes	A
X2CrNiMoN17-13-3	1.4429	295	330	580-800	35	30	100	60	60	1020-1120	w, a	yes	A
X3CrNiMo17-13-3	1.4436	205	240	510-710	40	30	100	60	60	1020-1120	w, a	yes ^g	A
X2CrNiMo18-14-3	1.4435	190	225	490-690	40	30	100	60	60	1020-1120	w, a	yes	A
X2CrNiMoN17-13-5	1.4439	285	315	580-800	35	30	100	60	60	1100-1140	w, a	yes	C
X2CrNiMo18-15-4	1.4438	220	250	490-690	35	30	100	60	60	1100-1160	w, a	yes	C