

Porównanie materiałów wg norm amerykańskich ASTM

Stale węglowe	RURY			KSZTAŁTKI			KOŁNIERZE		
	ASTM	Numer stali	Symbol DIN	ASTM	Numer stali	Symbol DIN	ASTM	Numer stali	Symbol DIN
	A 106 Grade A	1.0305	St 35.8	A 234 Grade WPA	1.0305	St 35.8	A 105 Grade I	1.0432	C 21
A 106 Grade B	1.0405	St 45.8	A 234 Grade WPB	1.0405	St 45.8	A 105 Grade II	1.0432	C 21	

Stale stopowe	RURY			KSZTAŁTKI			KOŁNIERZE		
	ASTM	Numer stali	Symbol EN	ASTM	Numer stali	Symbol EN	ASTM	Numer stali	Symbol EN
	A 335 Grade P1	1.5423	16Mo5	A 234 Grade WP 1	1.5423	16Mo5	A 182 Grade F 1	1.5421	20MnMo3-5
A 335 Grade P5	1.7362	X11CrMo5	A 234 Grade WP 5	1.7362	X11CrMo5	A 182 Grade F 5	1.7362	X11CrMo5	
A 335 Grade P7	-	-	A 234 Grade WP 7	-	-	A 182 Grade F 7	-	-	
A 335 Grade P9	1.7386	X 12 Cr Mo 9-1	A 234 Grade WP 9	1.7386	X 12 Cr Mo 9-1	A 182 Grade F 9	1.7386	X 12 Cr Mo 9-1	
A 335 Grade P11	-	-	A 234 Grade WP11	-	-	A 182 Grade F 11	-	-	
A 335 Grade P12	1.7335	13CrMo4-5	A 234 Grade WP12	1.7335	13CrMo4-5	A 182 Grade F 12	1.7335/1.7337	13CrMo4-5/16CrMo4-4	
A 335 Grade P22	1.7375/1.7380	12CrMo9-10/10CrMo9-10	A 234 Grade WP22	1.7375/1.7380	12CrMo9-10/10CrMo9-10	A 182 Grade F 22	1.7375/1.7380	12CrMo9-10/10CrMo9-10	

Stale do pracy w niskich temperaturach	RURY			KSZTAŁTKI			KOŁNIERZE		
	ASTM	Numer stali	Symbol EN DIN	ASTM	Numer stali	Symbol EN DIN	ASTM	Numer stali	Symbol EN DIN
	A 333 Grade 1	1.1101	TTSt35	A 420 Grade WPL1	-	-	A 350 Grade LF1	1.0437/1.0562	P310NB/P355N
-	-	-	-	-	-	A 350 Grade LF 2	1.0570	S 355J2G3	
A 333 Grade 3	1.5637/1.5639	12Ni 14/16Ni 14	A 420 Grade WPL3	1.5637/1.5639	12Ni 14/16Ni 14	A 350 Grade LF3	1.5637/1.5639	12Ni 14/16Ni 14	
A 333 Grade 4	-	-	A 420 Grade WPL4	-	-	A 350 Grade LF4	-	-	
A 333 Grade 6	1.0486/1.0256	P275N/P275T1	A 420 Grade WPL6	1.0486/1.0256	P275N/P275T1	A 350 Grade LF6	1.8902/1.8905	S420N/P460N	
A 333 Grade 8	1.5662	X8Ni9	A 420 Grade WPL8	1.5662	X8Ni9	A 350 Grade LF8	-	-	

Stale kwasoodporne	RURY			KSZTAŁTKI			KOŁNIERZE		
	ASTM	Numer stali	Symbol EN	ASTM	Numer stali	Symbol EN	ASTM	Numer stali	Symbol EN
	A 312 Grade TP 304	1.4301	X5CrNi 18-10	A 403 WP 304	1.4301	X5CrNi 18-10	A 182 Grade F 304	1.4301	X5CrNi 18-10
A 312 Grade TP 304L	1.4306	X2CrNi 19-11	A 403 WP 304L	1.4306	X2CrNi 19-11	A 182 Grade F 304L	1.4306	X2CrNi 19-11	
-	-	-	A 403 WP 309	1.4828	X15CrNiSi 20-12	-	-	-	
A 312 Grade TP 316	1.4436	X3CrNiMo 17-13-3	A 403 WP 316	1.4436	X3CrNiMo 17-13-3	A 182 Grade F 316	1.4436	X3CrNiMo 17-13-3	
A 312 Grade TP 316L	1.4404	X2CrNiMo 17-12-2	A 403 WP 316L	1.4404	X2CrNiMo 17-12-2	A 182 Grade F 3L	1.4404	X2CrNiMo 17-12-2	
A 312 Grade TP 316Ti	1.4571	X6CrNiMoTi 17-12-2	-	-	-	A 182 Grade F 316Ti	1.4571	X6CrNiMoTi 17-12-2	
A 312 Grade TP 321	1.4541	X6CrNiTi 18-10	A 403 WP 321	1.4541	X6CrNiTi 18-10	A 182 Grade F 321	1.4541	X6CrNiTi 18-10	
A 312 Grade TP 321H	1.4878	X8CrNiTi18-10	A 403 WP 321H	1.4878	X8CrNiTi18-10	A 182 Grade F 321H	1.4878	X8CrNiTi18-10	