

Steel Grades, Properties and Global Standards
Mechanical Properties, Room Temperature

Product	EN, min. values						ASTM, min. values			
	No.	R _{p0.2} MPa	R _{p1.0} MPa	R _m MPa	A _S %	KV J	No.	R _{p0.2} MPa	R _m MPa	A _{2"} %
CR strip/sheet	1.4016	260		450	20		S43000	205	450	22
HR Plate	1.4021	450		650	12		S42010			
HR Plate	1.4028	600		800	10		S42000		690	15
HR Plate	1.4313	650		780	14	70	S41500	620	795	15
HR Plate	1.4162	450	490	650	30	60	S32101	450	650	30
HR Plate	1.4362	400		630	25	60	S32304	400	600	25
HR Plate	1.4462	460		640	25	60	S32205	450	655	25
HR Plate	1.4501	530		730	25	60	S32760	550	750	25
HR Plate	1.4410	530		730	20	60	S32750	550	795	15
CR strip/sheet	1.4310	250	280	600	40		S30100	205	515	40
CR strip/sheet	1.4318	350	380	650	40	60	S30153	240	550	45
CR strip/sheet	1.4372	330	370	750	40	60	S20100	310	655	40
HR Plate	1.4301	210	250	520	45	60	S30400	205	515	40
HR Plate	1.4307	200	240	500	45	60	S30403	170	485	40
HR Plate	1.4311	270	310	550	40	60	S30453	205	515	40
HR Plate	1.4550	200	240	500	40	60	S34700	205	515	40
HR Plate	1.4305	190	230	500	35		S30300	205	515	40
HR Plate	1.4541	200	240	500	40	60	S32100	205	515	40
CR Narrow strip	1.4303	220	250	500	45		S30500	205	515	40
HR Plate	1.4306	200	240	500	45	60	S30403	170	485	40
Bar	1.4567	175	-	450	45		S30430			
HR Plate	1.4401	220	260	520	45	60	S31600	205	515	40
HR Plate	1.4404	220	260	520	45	60	S31603	170	485	40
HR Plate	1.4436	220	260	530	40	60	S31600	205	515	40
HR Plate	1.4432	220	260	520	45	60	S31603	170	485	
HR Plate	1.4406	280	320	580	40	60	S31653	205	515	40
HR Plate	1.4429	280	320	580	40	60	S31653	205	515	40
HR Plate	1.4571	220	260	520	40	60	S31635	205	515	
HR Plate	1.4435	220	260	520	45	60	S31603	170	485	40
HR Plate	1.4438	220	260	520	40	60	S31703	205	515	40
HR Plate	1.4439	270	310	580	40	60	S31726	240	550	40
HR Plate	1.4466	250	290	540	40	60	S31050	270	580	25
HR Plate	1.4539	220	260	520	35	60	N08904	220	490	35
HR Plate	1.4529	300	340	650	40	60	N08926	295	650	35
HR Plate	1.4547	300	340	650	40	60	S31254	310	655	35
HR Plate	1.4565	420	460	800	30	90	S34565	415	795	35
HR Plate	1.4713	220	-	420	20		-			
HR Plate	1.4724	250	-	450	15		-			
HR Plate	1.4742	270	-	500	15		-			
HR Plate	1.4762	280	-	520	15		S44600	275	515	20
HR Plate	1.4948	190	230	510	45	60	S30409	205	515	40
HR Plate	1.4878	190	230	500	40		S32109	205	515	40
HR Plate	1.4818	290	330	600	40		S30415	290	600	40
HR Plate	1.4833	210	250	500	35		S30908	205	515	40
CR strip/sheet	1.4828	230	270	550	30		S30900	205	515	40
HR Plate	1.4835	310	350	650	40		S30815	310	600	40
HR Plate	1.4845	210	250	500	35		S31008	205	515	40
HR Plate	1.4841	230	270	550	30		S31400	205	515	40
HR strip / sheet	1.4854	300	340	650	40		S35315	270	650	40

EN/ASTM values: Mainly for hot rolled plate, transverse direction, from EN 10088, EN 10095, EN 10028-7, ASTM A240, A176 and ASME Code Cases. Also values from EN 10269 and ASTM A473

EN min. values for cold rolled strip are 10 - 20 Mpa higher. Hot rolled strip may on request be certified to the higher level. Conversion from EN to ASTM, ASME:

1 MPa = 0.1450 ksi
1 J = 0.7376 ft lbf
°C = 5/9 x (°F - 32)
°F = 9/5 °C + 32