

MECHANICAL PROPERTIES OF SELECTED STAINLESS, DUPLEX AND HEAT RESISTANT STEELS

Steel	Structure	EN	AISI	Re (Rp0,2) H/mm2 min.	Rm N/mm2	Hb max. HRC
Stainless	Ferritic	1.4000	406,410S	230	400-630	200
		1.4003		230		200
		1.4016	430	240	400-630	200
		1.4510	430Ti, 439	240	420-600	180
	Martensitic	1.4006	410	450	660-850	220≥24
		1.4021	420	600	800-950	230≥28
		1.4028	420F	650	850-1000	245≥48
		1.4031			≤800	245≥52
		1.4034			≤800	245≥52
		1.4057	431	700	900-1050	265≥45
		1.4122		550	750-950	280≥28
	Austenitic	1.4301	304	190	500-700	215
		1.4305	303	190	500-770	230
		1.4306	304L	180	460-680	215
		1.4307	304L	175	460-680	215
		1.4310	301	195	500-700	230
		1.4401	316	200	500-700	215
		1.4404	316L	200	500-700	215
		1.4435	316L	200	500-700	215
		1.4436	316	200	500-700	215
		1.4438	317L	200	500-700	215
		1.4439	317LN	280	580-800	250
		1.4529	UNS N08925	300	650-850	250
		1.4539		230	530-730	230
		1.4541	321	190	500-700	215
		1.4547	UNS S31254	300	650-850	260
		1.4550	347	205	510-740	230
1.4571	316Ti	200	500-700	215		
Duplex	Austenitic -ferritic	1.4362	UNS S32304	400	600-830	260
		1.4410		530	730-930	290
		1.4460	329	460	620-880	260
		1.4462	UNS S31803	450	620-880	270
Heat resistant	Martensitic	1.4718		700	900-1100	217 25-32
		1.4724		250	450-650	192
	Ferritic	1.4742		270	500-700	212
		1.4749	446	280	500-700	217
		1.4762	446	280	520-720	223
		1.4828	309	230	500-750	223
	Austenitic	1.4833	309S	210	500-750	192
		1.4841	314	230	550-800	223
		1.4843		295	≥540	192
		1.4845	310S	210	500-750	192
		1.4864	330	230	550-800	223
		1.4876		210	500-750	192
		1.4878	321H	210	500-750	192