

Stainless Steel Characteristic List

Items	Type of stainless steel					Mechanical properties							Physical properties			
	UNS	AISI	DIN	ISO	KS (JIS)	Heat treatment condition	Internal stress (N/m ²)	tensile strength (N/mm ²)	Elongation (%)	Hardness			Specific heat J/g0C	Elastic coefficient t×103 N/mm2	Thermal expansion coefficient×10 ⁻⁶ cm/cm/0C(2.0 ~1000C)	Thermal conductivi ty W/m.
										HB	HRB	HV				
Austenitic stainless steel	S30100	301	×12CrNi17 7	14	301	S	≥205	≥520	≥40	≤207	≤95	≤218	0.5	194	16.9	16.3
	-	-	×2CrNi18 7	-	301L	S	≥215	≥550	≥45	≤187	≤90	≤200	0.5	194	16.9	16.3
	S30400	304	×5CrNi18 10	11	304	S	≥205	≥520	≥40	≤187	≤90	≤200	0.5	194	17.3	16.3
	-	-	-	-	304J1	S	≥155	≥450	≥40	≤187	≤90	≤200	0.5	194	17.3	16.3
	S30403	304L	×2CrNi19 11	10	304L	S	≥175	≥480	≥40	≤187	≤90	≤200	0.5	194	17.3	16.3
	S30451	304N	-	-	304N1	S	≥275	≥550	≥35	≤217	≤95	≤200	0.5	194	17.3	16.3
	S30452	-	-	-	304N2	S	≥345	≥690	≥35	≤248	≤100	≤260	0.5	194	17.3	16.3
	S31600	316	×5CrNiMo17 12 2 ×5CrNiMo17 14 3	20、20a	316	S	≥205 ≥175	≥520 ≥480	≥40 ≥40	≤187 ≤187	≤90 ≤90	≤200 ≤200	0.5	194	16	16.3
	S31603	316L	×2CrNiMo17 13 2 ×2CrNiMo17 14 3	19、19a	316L	S	≥175	≥480	≥40	≤187	≤90	≤200	0.5	193	16	16.3
	S32100	321	×6CrNiTi18 10	15H11	321	S	≥205	≥520	≥40	≤187	≤90	≤200	0.5	194	16.7	16.1
Ferritic stainless steel	-	-	-	-	409L	A	≥175	≥360	≥25	≤162	≤80	≤175	0.46	200	11.7	24.9
	-	-	-	-	410L	A	≥195	≥360	≥22	≤183	≤88	≤200	0.46	200	9.9	25.1
	S43000	430	×6Cr17	8、H4	430	A	≥205	≥450	≥22	≤183	≤88	≤200	0.46	200	10.4	26.4
	-	-	-	-	430J1L	A	≥205	≥390	≥22	≤192	≤90	≤200	0.46	200	10.4	25
	S43600	436	-	-	436L	A	≥245	≥410	≥20	≤217	≤96	≤230	0.46	200	10.4	25
Martensitic stainless steel	S41000	410	×10Cr13	3	410	A	≥205	≥440	≥20	≤201	≤93	≤210	0.46	202	9.9	24.9
	S42000	420	×20Cr13	4	420J1	A	≥225	≥520	≥18	≤223	≤97	≤234	0.46	202	10.3	23.8
	S42000	420	×20Cr13	5	420J2	A	≥225	≥540	≥18	≤235	≤99	≤247	0.46	202	10.3	23.8

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