"Protecting your Productivity"

Properties of Wrought Stainless Steel

(Tabulated in accordance with the Unified Numbering System for Metals and Alloys (UNS), Society of Automotive Engineers, Warrendale, Pa., 1975. This reference contains the cross reference numbers for AISI, ASTM, FED, MIL SPEC, and SAE specifications. All yield strengths are obtained using the 0.2 percent offset method. Provided by permission from the "Metals Handbook," 8th ed, vol 1, p 414, American Society for Metals, Metals Park, Ohio, 1961. Multiply strength in kpsi be 6.89 to get strength in MPa.)

UNS Number	Processing	Yield Strength kpsi	Tensile Strength kpsi	Elongation In 2 in, %	Reduction In area %	Brinell Hardness, H_b
S20100	Annealed	55	155	55		
S20100	1/4 hard	75	125	20		
S20100	1/2 hard	110	150	10		
S20100	3/4 hard	135	175	5		
S20100	Full hard	140	185	4		
S20200	Annealed	55	110	55		
S20200	1/4 hard	75	125	12		
S30100	Annealed	40	110	60		165
S30100	1/4 hard	75	125	25		
S30100	1/2 hard	110	150	15		
S30100	3/4 hard	135	175	12		
S30100	Full hard	140	185	8		
S30200	Annealed	37	90	55	65	155
S30200	1/4 hard	75	125	12		
S30300	Annealed	35	90	50	55	160
S30400	Annealed	35	85	55	65	150
S31000	Annealed	40	95	45	65	170
S31400	Annealed	50	100	45	60	170
S41400	Annealed	95	120	17	55	235
S41400	Drawn 400 F	150	200	15	55	415
S41400	Drawn 600 F	145	190	15	55	400
S41400	Drawn 800 F	150	200	16	58	415
S41400	Drawn 1000 F	120	145	20	60	325
S41400	Drawn 1200 F	105	120	20	65	260
S41600	Annealed	40	75	30	65	155
S41600	Drawn 400 F	145	190	15	55	390
S41600	Drawn 600 F	140	180	15	55	375

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S41600	Drawn 800 F	150	195	17	55	390
S41600	Drawn 1000 F	115	145	20	65	300
S41600	Drawn 1200 F	85	110	23	65	225
S41600	Drawn 1400 F	60	90	30	70	180
S43100	Annealed	95	125	20	60	260
S43100	Drawn 400 F	155	205	15	55	415
S43100	Drawn 600 F	150	195	15	55	400
S43100	Drawn 800 F	155	205	15	60	415
S43100	Drawn 1200 F	95	125	20	60	260
S50100	Annealed	30	70	28	65	160
S50200	Annealed	30	70	30	75	150

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