

Estimated Physical Properties of Hot Rolled Carbon Steel Bars

AISI No.	Estimated Minimum Values				Brinell Hardness
	Tensile Strength, psi	Yield Strength, psi	Elongation In 2in., %	Reduction In Area, %	
1006	43,000	24,000	30	55	86
1008	44,000	24,500	30	55	86
1009	43,000	24,000	30	55	86
1010	47,000	26,000	28	50	95
1012	48,000	26,500	28	50	95
1015	50,000	27,500	28	50	101
1016	55,000	30,000	25	50	111
1017	53,000	29,000	26	50	105
1018	58,000	32,000	25	50	116
1019	59,000	32,500	25	50	116
1020	55,000	30,000	25	50	111
1021	61,000	33,000	24	48	116
1022	62,000	34,000	23	47	121
1023	56,000	31,000	25	50	111
1024	74,000	41,000	20	42	149
1025	58,000	32,000	25	50	116
1026	64,000	35,000	24	49	126
1027	75,000	41,000	18	40	149
1030	68,000	37,500	20	42	137
1033	72,000	39,500	18	40	143
1035	72,000	39,500	18	40	143
1036	83,000	45,500	16	40	163
1037	74,000	40,500	18	40	143
1038	75,000	41,000	18	40	149
1039	79,000	43,500	16	40	156
1040	76,000	42,000	18	40	149
1041	92,000	51,000	15	40	187
1042	80,000	44,000	16	40	163
1043	82,000	45,000	16	40	163
1045	82,000	45,000	16	40	163
1046	85,000	47,000	15	40	170
1049	87,000	48,000	15	35	179
1050	90,000	49,500	15	35	179
1052	108,000	59,500	12	30	217
1055	94,000	51,500	12	30	192
1060	98,000	54,000	12	30	201
1064	97,000	53,500	12	30	201
1065	100,000	55,000	12	30	207
1070	102,000	56,000	12	30	212

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	Tensile Strength, psi	Yield Strength, psi	Elongation in 2in.,%	Reduction in Area,%	Brinell Hardness
1074	105,000	58,000	12	30	217
1078	100,000	55,000	12	30	207
1080	112,000	61,500	10	25	229
1084	119,000	65,500	10	25	241
1085	121,000	66,500	10	25	248
1086	112,000	61,500	10	25	229
1090	122,000	67,000	10	25	248
1095	120,000	66,000	10	25	248
1108	50,000	27,500	30	50	101
1109	50,000	27,500	30	50	101
1115	55,000	30,000	25	50	111
1117	62,000	34,000	23	47	121
1118	65,000	36,000	23	47	131
1119	62,000	34,000	23	47	121
1120	62,000	34,000	23	47	121
1126	64,000	35,000	23	47	126
1132	83,000	45,500	16	40	167
1137	88,000	48,000	15	35	179
1138	73,000	40,000	18	40	149
1140	79,000	43,500	16	40	156
1141	94,000	51,500	15	35	187
1144	97,000	53,000	15	35	197
1145	85,000	47,000	15	40	170
1146	85,000	47,000	15	40	170
1151	92,000	50,500	15	35	187
12L14	57,000	34,000	22	45	121