



Carbon Steel Heat Treat Properties

Alloy	Annealed				Heat Treated			
	Tensile Strength(ksi)	Yield Strength(ksi)	Elongation	Hardness	Tensile Strength(ksi)	Yield Strength(ksi)	Elongation	Hardness
1010 (G10100)	57,500	37,500	28	HRB 60				
1020 (G10200)	70,000	40,000	33	HRB 70	100,000	90,000	10	HRC 24
1040 (G10400)	90,000	45,000	14	HRB 85	125,000	100,000	5	HRC 35
1095 (G10950)	95,000	55,000	13	HRB 90	216,000	152,000	10	HRB 59
4130 (G41300)	80,000	60,000	18	HRB 100 max	105,000	85,000	18	HRC 42
4140 (G41400)	90,000	60,000	17	HRB 100 max	175,000	160,000	3	HRC 38
4340 (G43400)	90,000	70,000	15	HRB 100 max	200,000	180,000	5	HRC 44
6150 (G61500)	100,000	60,000	23	HRB 100 max	280,000	245,000	8	HRC 50
8620 (G86200)	70,000	50,000	22	HRB 85	100,000	80,000	2	HRC 28
8640 (G86400)	100,000	55,000	22	HRB 95	270,000	242,000	10	HRC 50
52100 (G51986)	94,000	62,000	27	HRC 20	180,000	170,000	6	HRC 58