

MECHANICAL REQUIREMENTS (A193 / A193M) – INCH SIZE

Grade	Diameter, in.	Heat Treatment ^B	Tensile Strength, min, ksi	Yield Strength, min, 0.2% offset, ksi	Elongation in 4D, min, %	Reduction of Area, min, %	Hardness, max
Class 2: B8	¾ And Under	Carbide Solution Treated And Strain Hardened	125	100	12	35	321 HB or 35 HRC
	Over ¾ To 1 Inch		115	80	15	35	321 HB or 35 HRC
	Over 1 To 1¼ Inch		105	65	20	35	321 HB or 35 HRC
	Over 1¼ To 1½ Inch		100	50	28	45	321 HB or 35 HRC
Class 2: B8M	¾ And Under	Carbide Solution Treated And Strain Hardened	110	96	15	45	321 HB or 35 HRC
	Over ¾ To 1 Inch		100	80	20	45	321 HB or 35 HRC
	Over 1 To 1¼ Inch		95	65	25	45	321 HB or 35 HRC
	Over 1¼ To 1½ Inch		90	50	30	50	321 HB or 35 HRC