F Classes 1 and 1D are solution treated. Classes 1, 1B, and some 1C (B8R and B8S) products are made from solution treated material. Class 1A (B8A, B8CA, B8MA, B8PA, B8TA, B8LNA, B8MLNA, B8NA, and B8MNA) and some Class 1C (B9RA and B8SA) products are solution treated in the finished condition. Class 2 products are solution treated and strain hardened.

TABLE 2 Mechanical Requirements — Inch Products

Grade Diameter, in. Temporring Tem		TABLE 2 Mechanic	cal Requireme	ents — Inch	Products	a+ 1.5		The Republic Street
Bis 10 10 10 10 10 10 10 1	Grade	Diameter, in.	Tempering Temperature,	Strength,	min, 0.2 % offset,	in 4D,	of Are	ea, max
\$ to 6 % chromium big bot 4, incl	0.00 mg/s	.0.0 1997 (40.0 20.0 1997 (40.0	Ferritic Steels		issa atom	120 A		wam ,eutoficati
196	B5	1975 C. O.	75.5		-100 FO.D	00		ana nasi
BBX 13% chromium up to 4, Incl 1100 90 70 16 50 26 HRC B7 B7 B7 B7 B7 B7 B7 B	B6	up to 4, incl						· · · · · · · · · · · · · · · · · · ·
B7		or up to 4, incl	1100	110	85	15	50	••• raenaarivia rages
Over 2½ to 4		up to 4, incl	1100	90	70	16	50	26 HRC
Over 4 to 7	Chromium-molybdenum	21/2 and under	1100	125	105	16	50	
Over 4 to 7		over 21/2 to 4	1100	115	95	16	50	321 HB or
B7M**Chromium-molybdenum		over 4 to 7	1100	100	75	18	50	321 HB or
Description Community Co	B7M ^A Chromium-molybdenun	n 4 and under	1150	100	80	18	50	235 HB or
B16 Chromium-molybdenum-vanadium 2½ and under 1200 125 105 18 50 321 HB or 35 HRC		over 4 to 7	1150	100	75	18	50	235 BHN or
Over 21½ to 4 1200 1100 95 17 45 321 HB or 35 HRC		340.0 000.0	4000	105	105	40	F.	
Tensile Strength, min, ks Tensile Strength, Elongation Reduction Reduct	Jhromium-molybdenum-vanadium							35 HRC
Tensile Strength Find Strength Str		over 2½ to 4	1200		95			
Strength		over 4 to 8	1200	100	85	16	45	
Classes 1 and 1D; B8, B8M, B8P, carbide solution treated 75 30 30 50 223 HB° or 96	Grade, Diameter, in.	Heat Treatment [®]	St	rength,	Strength, min, 0.2 % offset,	in 4 D,	of Area,	
BBMLN, all diameters Carbide solution treated 75 30 30 50 223 HBC or 96	30,03	e.7-a.7	Austenitic Steel	ls	0 L 0 B			anganese,
Class 1: B8C, B8T, all diameters carbide solution treated in the finished condition Class 1A: B8A, B8CA, B8MA, B8MLNA, B8MLNA, B8MLNA, B8MLCuNA, all diameters Classes 1B and 1D: B8N, B8MN, B8MN, and B8MLCuNA, all diameters Classes 1C and 1D: B8R, all carbide solution treated in the finished condition Classes 1C: B8RA, all diameters Classes 1C and 1D: B8S, all carbide solution treated in the finished condition Classes 1C: B8RA, all diameters Classes 1C and 1D: B8S, all carbide solution treated in the finished condition Classes 1C: B8RA, all diameters Classes 1C: B8RA, carbide solution treated in the finished solution treated in the finished condition Classes 1C: B8RA, carbide solution treated in the finished solution treated s	38LN,	carbide solution treated	ar e Coule La ve Coule	75	30	30	50 2	223 HB ^C or 96 HF
Class 1A: B8A, B8CA, B8MA, carbide solution treated in the finished condition 30 30 50 192 HB or 90 H 38PA, B8TA, B8LNA, B8LNA, B8MLNA, B8MLNA, B8MLNA, B8MLNA, B8MLNA, B8MLNA, B8MLNA, B8MLNA, B8MLCUNA, all diameters Classes 1B and 1D: B8N, B8MN, carbide solution treated 80 35 30 40 223 HB ^C or 96 and B8MLCUN, all diameters Classes 1C and 1D: B8R, all carbide solution treated 100 55 35 55 271 HB or 28 H 20 Classes 1C: B8RA, all diameters Classes 1C and 1D: B8S, all carbide solution treated in the finished condition Classes 1C and 1D: B8S, all carbide solution treated 95 50 35 55 271 HB or 28 H 20 Classes 1C: B8SA, carbide solution treated in the finished 95 50 35 55 271 HB or 28 H 20 Classes 1C: B8SA, carbide solution treated in the finished 95 50 35 55 271 HB or 28 H 20 Classes 1C: B8SA, carbide solution treated and strain hardened Classes 1C: B8SA, carbide solution treated and strain 125 100 12 35 321 HB or 35 H 20 Classes 1C: B8SA, carbide solution treated and strain 105 65 20 35 321 HB or 35 H 20 Classes 1C: B8SA, B8MN, B8MLCuN ^C carbide solution treated and strain 105 65 20 35 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide solution treated and strain 100 50 28 45 321 HB or 35 H 20 Class 2: B8M, B8MN, B8MLCuN ^C carbide s	Class 1: B8C, B8T, all	carbide solution treated	38.0	75	30	30	50	223 HB ^C or 96HR
Classes 1B and 1D: B8N, B8MN, carbide solution treated 80 35 30 40 223 HB ^C or 96 and B8MLCuN, all diameters Classes 1C and 1D: B8R, all carbide solution treated 100 55 35 55 271 HB or 28 H Class 1C: B8RA, all diameters carbide solution treated in the finished 100 55 35 55 271 HB or 28 H Class 1C: B8RA, all diameters carbide solution treated in the finished 95 50 35 55 271 HB or 28 H Classes 1C and 1D: B8S, all carbide solution treated 95 50 35 55 271 HB or 28 H Classes 1C: B8SA, carbide solution treated in the finished 95 50 35 55 271 HB or 28 H Classes 1C: B8SA, all diameters condition carbide solution treated and strain 125 100 12 35 321 HB or 35 H 38N, P W and under 115 80 15 35 321 HB or 35 H	Class 1A: B8A, B8CA, B8MA, B8PĄ, B8TA, B8LNA, B8MLNA,			75	30	30	50	192 HB or 90 HR
BBMLCUN, all diameters Classes 1C and 1D: B8R, all carbide solution treated in the finished condition Classes 1C: B8RA, all diameters carbide solution treated in the finished condition Classes 1C and 1D: B8S, all carbide solution treated in the finished condition Classes 1C: B8RA, all diameters carbide solution treated in the finished solution treated solution treated solution treated solution treated solution treated in the finished solution treated in the finished solution treated solution treated solution								
Classes 1C and 1D: B8R, all carbide solution treated 100 55 35 55 271 HB or 28 H or 28	and AMEMBA MA	carbide solution treated		80	35	30	40 2	223 HB ^c or 96 HF
Class 1C: B8RA, all diameters carbide solution treated in the finished condition Classes 1C and 1D: B8S, all carbide solution treated Glasses 1C: B8SA, carbide solution treated in the finished diameters Classes 1C: B8SA, carbide solution treated in the finished diameters Classes 1C: B8SA, carbide solution treated in the finished double condition Class 2: B8, B8C, B8P, B8T, and carbide solution treated and strain diameters 4. and under 6. over 34 to 1, incl over 1 to 11/4, incl over 1 to 11/4, incl over 11/4 to 11/2, incl 6. over 11/4 to 11/2, incl 6. carbide solution treated and strain diameters 6. carbide solution treated and strain diameters 7. carbide solution treated and strain diameters 8. carbide solution treated and strain diameters 8. carbide solution treated and strain diameters 95	Classes 1C and 1D: B8R, all	carbide solution treated		100	55	35	55	271 HB or 28 HR
Idameters Classes 1C: B8SA,				100	55	35	55	271 HB or 28 HR
Classes 1 C: B8SA, and indiameters condition carbide solution treated in the finished condition carbide solution treated and strain and under cover 3/4 to 1, incl cover 1 to 11/4, incl cover 1 to 11/4, incl cover 1/4 to 11/2, incl carbide solution treated and strain and under cover 1/4 to 11/2, incl cover 1/4 to 11/2, incl carbide solution treated and strain and under cover 1/4 to 11/2, incl carbide solution treated and strain and under carbide solution treated and strain and under carbide solution treated and strain and under and under carbide solution treated and strain and under carbide solution treated and st		carbide solution treated		95	50	35	55	271 HB or 28 HR
Class 2: B8, B8C, B8P, B8T, and carbide solution treated and strain 125 100 12 35 321 HB or 35 H B8N, P hardened 125 100 12 35 321 HB or 35 H B8N, P hardened 15 35 321 HB or 35 H B or 35	Classes 1C: B8SA,			95	50	35	55	271 HB or 28 HR
over ¾ to 1, incl over 1 to 1¼, incl over 1 to 1¼, incl over 1 to 1½, incl over 1 to 1½, incl over 1½, incl over 1½, incl over 1½, incl over 1¼ to 1½, incl over 1½, inc	Class 2: B8, B8C, B8P, B8T, and 88N, ^D	carbide solution treated and strain		125	100	12	35	321 HB or 35 HR
over 1 to 11/4 , incl over 11/4 to 11/2 , incl 100 50 28 45 321 HB or 35 H Class 2: B8M, B8MN, B8MLCuN ^D carbide solution treated and strain 110 96 15 45 321 HB or 35 H 4 and under hardened				115	80	15	35	321 HB or 35 HR
Class 2: B8M, B8MN, B8MLCuN ^p carbide solution treated and strain 110 96 15 45 321 HB or 35 H 4 and under hardened	over 1 to 11/4, incl			105	65 2 65	20	35	321 HB or 35 HR
That did did did did did did did did did di	Class 2: B8M, B8MN, B8MLCuN ^D	carbide solution treated and strain		or end allowed	Calab Moreon P	evene dido.	45 °C	321 HB or 35 HR
	4 and under over 3/4 to 1 incl	hardened		100	80	20		321 HB or 35 HR