

bronze

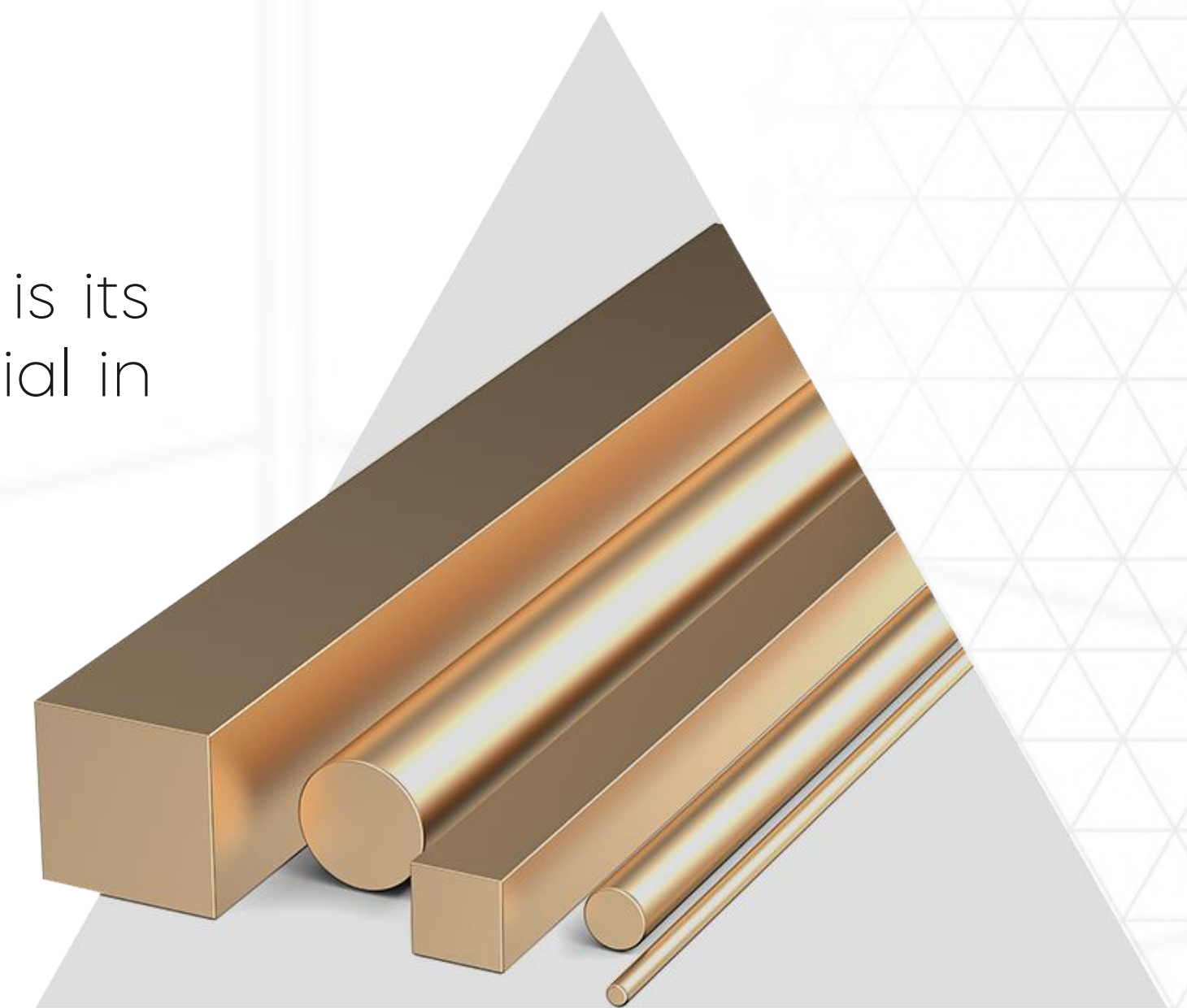


Bronze

Bronze is a versatile metal alloy based on copper and varying proportions of other elements such as tin (Sn), zinc (Zn), lead (Pb), and phosphorus (P). Some of its characteristics are:

- ▶ High mechanical strength;
- ▶ High ductility;
- ▶ High wear resistance;
- ▶ High corrosion resistance;
- ▶ High thermal and electrical conductivity;
- ▶ Easy to polish.

One of the factors for this raw material to be so essential to the industry is its high resistance to friction wear, which makes bronze a widely used material in bearings, gears, and related parts.



bronze

MAIN ALLOYS, SHAPES, CHARACTERISTICS AND APPLICATIONS

part 1/3

Name	Alloy ASTM/UNS	Shape	Characteristics	Applications
Phosphor Bronze	C51000	Coils, sheets, strips	Excellent cold formability and limited hot formability. Excellent weldability and brazing.	Stirrer propellers, bellows, friction discs, keys, diaphragms, nuts and rivets, lock washers, components for the Chemical, Textile, and Paper industries. Springs, contacts, parts for switches, fuse holders.
Phosphor Bronze	C51100	Coils, sheets, strips	Excellent cold formability and poor hot formability. Excellent weldability and brazing.	Bells, clutch disks, keys, connectors, diaphragms, tie rods, springs, switch parts, terminals.
Phosphor Bronze	C52100	Coils, sheets, strips	Good cold formability and poor hot formability. Excellent weldability and brazing.	Stirrer propellers, bellows, friction discs, keys, diaphragms, nuts and rivets, lock washers, components for the Chemical, Textile, and Paper industries. Springs, contacts, parts for switches, fuse holders.
Bronze SAE 65 Bz 12 Bz 14 CuSn	C90700 C90800 C91000	Bushings, billets, rectangular bars	Tenacious hardness with good resistance against wear, corrosion, and surface fatigue. Allows working with high specific loads. It is important that they are well lubricated.	Gears, bushings, bearings, crowns, slide guides, piston rings.
Bronze SAE 62 SAE 620 SAE 622 CuSnZn	C90500 C90300 C92200	Bushings, billets, rectangular bars	Corrosion and seawater resistant. Allows working with medium specific loads.	O-rings, valves, stem seats, flanges and connections, pump housing and rotors, pressure and temperature resistant parts.

MAIN ALLOYS, SHAPES, CHARACTERISTICS AND APPLICATIONS

Name	Alloy ASTM/UNS	Shape	Characteristics	Applications
Bronze SAE 64 SAE 66 SAE 67 CuSnPb	C93700 C93500 C93800	Bushings, billets, rectangular bars	Excellent resistance to abrasion, corrosion, anti-friction and pressure sealing. Good capacity for working precariously without momentary lubrication.	Bushings for press, shoes, bearings, bushings for clutch pins, slide sleeves.
Bronze SAE 40 SAE 660 CuSnPbZn	C83600 C93200	Bushings, billets, rectangular bars	Good anti-friction properties and medium strengths. Use on parts that require moderate surface pressure and speed.	Small parts such as bearings, bushes, sleeves, crowns, rings, hydraulic material and gaskets, coupling elements.
Bronze SAE 6z-A SAE 68-B SAE CA-624 SAE CA-630 SAE CA-954 SAE CA-955 CuAl	C95200 C95300 C62400 C63000 C95400 C95500	Bushings, billets, rectangular bars	Excellent mechanical properties. Vibration, wear, corrosion, and cavitation resistant. Heat treatable, require good lubrication.	Sliding bearings with extremely high loads and shocks, highly stressed crowns, bushings, gears, valve seats and housing, guides, pinions, rings, shoes, parts for stirrers, and anti-sparking tools.
Bronze SAE 430-A SAE 430-B SAE 43 CuZnAlMn	C86200 C86300 C86500	Bushings, billets, rectangular bars	Excellent corrosion resistance and excellent properties to withstand extremely high static loads at low speeds.	Indicated for heavily demanded bearings and crowns and internal components of high pressure valves, bushings, nuts for presses, parts for hydraulic cylinders, overhead crane components, high resistance supports.

bronze

MAIN ALLOYS, SHAPES, CHARACTERISTICS AND APPLICATIONS

part 3/3

Name	Alloy ASTM/UNS	Shape	Characteristics	Applications
Bronze TM-23		Bushings, billets	Good formability and fatigue resistance. Medium corrosion resistance. Excellent weldability. Allows working in systems with poor lubrication.	Bearings, bushings, sleeves for the automotive, sugar-alcohol and heavy machinery industries, valves.
Bronze TM-620		Bushings, billets	Good fatigue resistance. Allows working with high specific loads. Should be used for works in systems with constant lubrication.	Bearings, bushings, sleeves for the automotive, sugar-alcohol and heavy machinery industries, wear plates, decorative lines.

bronze

CHEMICAL COMPOSITION OF BRONZE

part 1/4

Name	Alloy	Cu	Zn	Pb	P	Sn	Fe	Al	Ni	Mn	Si	Others
	ASTM / UNS	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Phosphor Bronze	C51000	remaining	0.30	0.05	0.03	4.20	0.10					
					0.35	5.80						
Phosphor Bronze	C51100	remaining	0.30	0.05	0.03	3.50	0.10					
					0.35	4.90						
Phosphor Bronze	C52100	remaining	0.20	0.05	0.03	7.00	0.10					
					0.35	9.00						
Bronze SAE 65	C90700	88.00		0.5	0.30	10.00		0.005	0.500		0.005	0.3
CuSn		90.00				12.00						
Bronze Bz 12	C90800	84.00	0.25	0.25	0.15	11.00	0.15		0.500			Sb=0,20
CuSn		88.00				13.00						
Bronze Bz 14	C91000	85.00	0.50	1.00	0.20	13.00	0.20		1.000			
CuSn		87.00				14.00						
Bronze SAE 62	C90500	86.00	1.00	0.3	0.05	9.00	0.15	0.005	1.000		0.005	0.3
CuSnZn		89.00	3.00			11.00						

bronze

CHEMICAL COMPOSITION OF BRONZE

part 2/4

Name	Alloy	Cu	Zn	Pb	P	Sn	Fe	Al	Ni	Mn	Si	Othersx
	ASTM / UNS	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Bronze SAE 622	C92200	86.00	3.00	1.00	0.05	5.50	0.30	0.005	1.000		0.005	0.3
CuSnZn		90.00	5.00	2.00		6.50						
Bronze SAE 64	C93700	78.00	0.80	8.00	0.50	9.00	0.15	0.005	1.000		0.005	Sb=0,60
CuSnPb		82.00		11.00		11.00						out-ros=0,20
Bronze SAE 66	C93500	83.00	2.00	8.00	0.05	4.50	0.20	0.005	0.800		0.005	Sb=0,35
CuSnPb		86.00		10.00		6.00						out-ros=0,30
Bronze SAE 67	C93800	75.00	0.80	13.00	0.05	6.30	0.15	0.005	0.800		0.005	Sb=0,80
CuSnPb		79.00		16.00		7.50						out-ros=0,20
Bronze SAE 40	C83600	84.00	4.00	4.00	0.05	4.00	0.30	0.005	1.000		0.005	0.35
CuSnPbZn		86.00	6.00	6.00		6.00						
Bronze SAE 660	C93200	81.00	2.00	6.00	0.50	6.20	0.20	0.005	0.800		0.005	Sb=0,35
CuSnPbZn		85.00	4.00	8.00		7.50						out-ros=0,20

bronze

CHEMICAL COMPOSITION OF BRONZE

part 3/4

Name	Alloys	Cu	Zn	Pb	P	Sn	Fe	Al	Ni	Mn	Si	Others
	ASTM / UNS	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Bronze SAE 68-A	C95200	86.00					2.50	8.50				1.00
CuAl		(mín.)					4.00	9.50				
Bronze SAE 68-B	C95300	86					0.70	9.00				1.00
CuAl		(mín.)					1.50	11.00				
Bronze SAE CA-624	C62400	99.5				0.20	2.00	10.00		0.30	0.250	
CuAl		(mín.)					4.00	11.50				
Bronze SAE CA-630	C63000	78.00				0.20	2.00	9.00	4.000	1.50	0.250	0.50
CuAl		85.00					4.00	11.00	5.500			
Bronze SAE CA-954	C95400	83.00					3.00	10.00	2.500	0.50		0.50
CuAl		(mín.)					5.00	11.50				
Bronze SAE CA-955	C95500	78.00					3.00	10.00	3.000	3.50		0.50
CuAl		(mín.)					5.00	11.50	5.500			
Bronze SAE 430-A	C86200	60.00	restante	0.20		0.20	2.00	3.00	1.000	2.50		0.30
CuZnAlMn		66.00								4.00		

bronze

CHEMICAL COMPOSITION OF BRONZE

part 4/4

Name	Alloys	Cu	Zn	Pb	P	Sn	Fe	Al	Ni	Mn	Si	Others
	ASTM / UNS	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Bronze SAE 430-A	C86200	60.00	remaining	0.20		0.20	2.00	3.00	1.000	2.50		0.30
CuZnAlMn		66.00					4.00	4.90		5.00		
Bronze SAE 430-B	C86300	60.00	remaining	0.20		0.20	2.00	5.00	1.000	2.50		0.30
CuZnAlMn		66.00					4.00	7.50		5.00		
Bronze SAE 43	C86500	55.00	remaining	0.40		1.00	0.40	0.50	1.000	1.50		0.30
CuZnAlMn		60.00					2.00	1.50				
Bronze TM-23	-	70.00	9.00	20.00		4.00						
		(mín.)	(máx.)	(máx.)		(mín.)						
Bronze TM-620	-	86.00	5.00	1.00		7.00						
		(mín.)	(máx.)	(máx.)		(mín.)						

Notas:

1. The mentioned values represent maximum limits per chemical element, except when minimum and maximum ranges are indicated.
2. The indicated values do not imply a formal guarantee.

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MECHANICAL PROPERTIES OF BRONZE

part 2/5

Name	Alloy ASTM / UNS	Shape	Tempering	Tensile Strength Limit (kgf/mm ²)	Yield Strength (kgf/mm ²)	Minimum Elongation "50,80 mm" (%)	Brinell Hardness (HB)
Bronze SAE 62	C90500	Bushings,	-	28	13	20	90
		billets, rectangular bars					
Bronze SAE 620	C90300	Bushings,	-	28	13	20	70
		billets, rectangular bars					
Bronze SAE 622	C92200	Bushings,	-	23	10	24	65
		billets, rectangular bars					
Bronze SAE 64	C93700	Bushings,	-	21	8	15	82
		billets, rectangular bars					
Bronze SAE 66	C93500	Bushings,	-	19	8	15	60
		billets, rectangular bars					

bronze

MECHANICAL PROPERTIES OF BRONZE

part 3/5

Name	Alloy ASTM / UNS	Shape	Tempering	Tensile Strength Limit (kgf/mm ²)	Yield Strength (kgf/mm ²)	Minimum Elongation "50,80 mm" (%)	Brinell Hardness (HB)
Bronze SAE 67	C93800	Bushings,	-	18	9	12	50
		billets, rectangular bars					
Bronze SAE 40	C83600	Bushings,	-	21	10	20	70
		billets, rectangular bars					
Bronze SAE 660	C93200	Bushings,	-	21	10	12	75
		billets, rectangular bars					
Bronze SAE 68-A	C95200	Bushings,	-	46	18	20	120
		billets, rectangular bars					
Bronze SAE 68-B	C95300	Bushings,	-	46	18	20	130
		billets, rectangular bars					

MECHANICAL PROPERTIES OF BRONZE

Name	Alloy ASTM / UNS	Shape	Tempering	Tensile Strength Limit (kgf/mm ²)	Yield Strength (kgf/mm ²)	Minimum Elongation "50,80 mm" (%)	Brinell Hardness (HB)
Bronze SAE CA-624	C62400	Bushings,	-	56	32	7	164
		billets, rectangular bars					
Bronze SAE CA-630	C63000	Bushings,	-	63	32	6	228
		billets, rectangular bars					
Bronze SAE CA-954	C95400	Bushings,	-	53	21	12	165
		billets, rectangular bars					
Bronze SAE CA-955	C95500	Bushings,	-	63	28	6	190
		billets, rectangular bars					
Bronze SAE 430-A	C86200	Bushings,	-	63	31	18	150
		billets, rectangular bars					

MECHANICAL PROPERTIES OF BRONZE

Name	Alloy ASTM / UNS	Shape	Tempering	Tensile Strength Limit (kgf/mm ²)	Yield Strength (kgf/mm ²)	Minimum Elongation "50,80 mm" (%)	Brinell Hardness (HB)
Bronze SAE 430-B	C86300	Bushings,	-	77	42	12	200
		billets, rectangular bars					
Bronze SAE 43	C86500	Bushings,	-	45	17	20	98
		billets, rectangular bars					
Bronze TM-23	-	Billets, bushings	-	28	16	23	75
Bronze TM-620	-	Billets, bushings	-	36	17	32	92

Notes: The values indicated do not imply a formal guarantee

PHYSICAL PROPERTIES OF BRONZE

Name	Alloys ASTM / UNS	Density at 20 °C ?= specific weight (g/ cm ³)	Melting Point (°C)	Thermal Conductivity at 20 °C (cal/cm/ sec °C)	Specific Heat 20 °C (cal/g °C)	Electrical Resistivity at 20 °C (annealed material) (μΩ cm)	Electrical Conductivity at 20 °C (annealed material) (IACS %)	Coefficient of Thermal Expansion 20 to 300 °C (10 ⁻⁶ °C)	Modulus of Elasticity at 20 °C (kg/mm ²)	Modulus of Rigidity at 20 °C (kg/mm ²)
Phosphor Bronze	C51000	8.86	1,050	0.17	0.09	11.5	15	17.8	11,200	4,200
Phosphor Bronze	C51100	8.86	1,060	0.2	0.09	8.7	20	17.8	11,200	4,200

Notes: The values indicated do not imply a formal guarantee

BILLET WEIGHT PER PIECE WITH 500MM

Diameter	Weight	Diameter	Weight	Diameter	Weight	Diameter	Weight	Diameter	Weight
3/8"	0,44	2.1/8"	10,91	4.1/8"	39,97	6.1/8"	87,28	8.1/8"	1473,66
7/16"	0,57	2.1/4"	12,19	4.1/4"	42,40	6.1/4"	90,85	8.1/4"	157,54
1/2"	0,72	2.3/8"	13,54	4.3/8"	44,90	6.3/8"	94,49	8.3/8"	162,33
9/16"	0,89	2.1/2"	14,97	4.1/2"	47,46	6.1/2"	98,19	8.1/2"	167,16
5/8"	1,08	2.5/8"	16,46	4.5/8"	50,09	6.5/8"	101,96	8.5/8"	172,07
3/4"	1,50	2.3/4"	18,03	4.3/4"	52,80	6.3/4"	105,81	8.3/4"	177,07
7/8"	2,00	2.7/8"	19,67	4.7/8"	55,58	6.7/8"	109,73	8.7/8"	182,12
1"	2,57	3"	21,38	5"	58,43	7"	113,72	9"	187,26
1.1/8"	3,21	3.1/8"	23,17	5.1/8"	61,35	7.1/8"	117,78	9.1/8"	192,45
1.1/4"	3,93	3.1/4"	25,02	5.1/4"	64,35	7.1/4"	121,92	9.1/4"	197,73
1.3/8"	4,71	3.3/8"	26,97	5.3/8"	67,41	7.3/8"	126,13	9.3/8"	203,08
1.1/2"	5,56	3.1/2"	28,93	5.1/2"	70,54	7.1/2"	130,40	9.1/2"	208,49
1.5/8"	6,49	3.5/8"	31,00	5.5/8"	73,75	7.5/8"	134,74	9.5/8"	213,97
1.3/4"	7,49	3.3/4"	33,14	5.3/4"	77,03	7.3/4"	139,16	9.3/4"	219,54
1.7/8"	8,56	3.7/8"	35,35	5.7/8"	80,37	7.7/8"	143,64	9.7/8"	225,16
2"	9,70	4"	37,63	6"	83,80	8"	148,21	10"	230,86

bronze

BILLET WEIGHT PER PIECE WITH 500MM

Diameter	Weight	Diameter	Weight	Diameter	Weight	Diameter	Weight
10.1/8"	236,63	12.1/8"	338,66	12.1/8"	338,66	15.1/4"	534,62
10.1/4"	248,38	12.1/4"	345,65	12.1/4"	345,65	15.1/2"	552,22
10.3/8"	248,40	12.3/8"	367,04	12.3/8"	367,04	15.3/4"	570,11
10.1/2"	36813,20	12.1/2"	359,83	12.1/2"	359,83	16"	588,28
10.5/8"	260,43	12.5/8"	367,02	12.5/8"	367,02	16.1/4"	606,73
10.3/4"	266,56	12.3/4"	374,30	12.3/4"	374,30	16.1/2"	625,47
10.7/8"	272,75	12.7/8"	381,63	12.7/8"	381,63	16.3/4"	644,50
11"	279,03	13"	389,05	13"	389,05	17"	663,81
11.1/8"	285,36	13.1/4"	404,08	13.1/4"	404,08	17.1/2"	703,28
11.1/4"	291,79	13.1/2"	419,40	13.1/2"	419,40	18"	743,90
11.3/8"	298,28	13.3/4"	435,01	13.3/4"	435,01	18.1/2"	785,65
11.1/2"	304,83	14"	451,12	14"	451,12	19"	828,55
11.5/8"	311,44	14.1/4"	467,07	14.1/4"	467,07	19.1/2"	872,58
11.3/4"	318,15	14.1/2"	483,53	14.1/2"	483,53	20"	917,76
11.7/8"	324,91	14.3/4"	500,28	14.3/4"	500,28	21"	1011,53
12"	331,76	15"	517,31	15"	517,31	22"	1109,86

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight
7/8"	1/2"	1,56	1.3/8"	5/8"	3,99	1.5/8"	7/8"	4,98	1.7/8"	5/8"	7,83
7/8"	5/8"	1,28	1.3/8"	3/4"	3,63	1.5/8"	1"	4,48	1.7/8"	3/4"	7,48
1"	1/2"	2,14	1.3/8"	7/8"	3,20	1.5/8"	1.1/8"	3,91	1.7/8"	7/8"	7,05
1"	5/8"	1,85	1.3/8"	1"	2,70	1.5/8"	1.1/4"	3,27	1.7/8"	1"	6,55
1"	3/4"	1,49	1.3/8"	1.1/8"	2,13	1.5/8"	1.3/8"	2,56	1.7/8"	1.1/8"	5,98
1.1/8"	1/2"	2,78	1.1/2"	1/2"	5,13	1.3/4"	1/2"	7,05	1.7/8"	1.1/4"	5,34
1.1/8"	5/8"	2,49	1.1/2"	5/8"	4,84	1.3/4"	5/8"	6,77	1.7/8"	1.3/8"	4,63
1.1/8"	3/4"	2,13	1.1/2"	3/4"	4,49	1.3/4"	3/4"	6,41	1.7/8"	1.1/2"	3,84
1.1/8"	7/8"	1,71	1.1/2"	7/8"	4,06	1.3/4"	7/8"	5,98	1.7/8"	1.5/8"	2,99
1.1/4"	1/2"	3,49	1.1/2"	1"	3,56	1.3/4"	1"	5,48	2"	1/2"	9,26
1.1/4"	5/8"	3,20	1.1/2"	1.1/8"	2,99	1.3/4"	1.1/8"	4,91	2"	5/8"	8,97
1.1/4"	3/4"	2,85	1.1/2"	1.1/4"	2,35	1.3/4"	1.1/4"	4,27	2"	3/4"	8,62
1.1/4"	7/8"	2,42	1.5/8"	1/2"	6,05	1.3/4"	1.3/8"	3,56	2"	7/8"	8,19
1.1/4"	1"	1,92	1.5/8"	5/8"	5,77	1.3/4"	1.1/2"	2,77	2"	1"	7,69
1.3/8"	1/2"	4,27	1.5/8"	3/4"	5,41	1.7/8"	1/2"	8,12	2"	1.1/8"	7,12

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Peso	Outside Diameter	Inside diameter	Weight
2"	1.1/4"	6,48	2.1/8"	1.3/4"	4,41	2.3/8"	3/4"	12,46	2.1/2"	1"	12,96
2"	1.3/8"	5,77	2.1/4"	1/2"	11,75	2.3/8"	7/8"	12,04	2.1/2"	1.1/8"	12,39
2"	1.1/2"	4,98	2.1/4"	5/8"	11,47	2.3/8"	1"	11,54	2.1/2"	1.1/4"	11,75
2"	1.5/8"	4,13	2.1/4"	3/4"	11, 11	2.3/8"	1.1/8"	10,97	2.1/2"	1.3/8"	11,04
2"	1.3/4"	3,20	2.1/4"	7/8"	10,68	2.3/8"	1.1/4"	10,32	2.1/2"	1.1/2"	10,25
2.1/8"	1/2"	10,47	2.1/4"	1"	10, 18	2.3/8"	1.3/8"	9,61	2.1/2"	1.5/8"	9,40
2.1/8"	5/8"	10, 18	2.1/4"	1.1/8"	9,62	2.3/8"	1.1/2"	8,83	2.1/2"	1.3/4"	8,47
2.1/8"	3/4"	9,83	2.1/4"	1.1/4"	8,97	2.3/8"	1.5/8"	7,97	2.1/2"	1.7/8"	7,48
2.1/8"	7/8"	9,40	2.1/4"	1.3/8"	8,26	2.3/8"	1.3/4"	7,05	2.1/2"	2"	5,27
2.1/8"	1"	8,90	2.1/4"	1.1/2"	7,48	2.3/8"	1.7/8"	6,05	2.1/2"	2.1/8"	16,02
2.1/8"	1.1/8"	8,33	2.1/4"	1.5/8"	6,62	2.3/8"	2"	4,98	2.5/8"	1/2"	15,74
2.1/8"	1.1/4"	7,69	2.1/4"	1.3/4"	5,69	2.1/2"	1/2"	14,53	2.5/8"	5/8"	15,38
2.1/8"	1.3/8"	6,98	2.1/4"	1.7/8"	4,70	2.1/2"	5/8"	14,25	2.5/8"	3/4"	14,96
2.1/8"	1.1/2"	6,19	2.3/8"	1/2"	13, 10	2.1/2"	3/4"	13,89	2.5/8"	7/8"	14,46
2.1/8"	1.5/8"	5,34	2.3/8"	5/8"	12,82	2.1/2"	7/8"	13,46	2.5/8"	1"	13,46

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight
2.5/8"	1.1/8"	13,89
2.5/8"	1.1/4"	13,24
2.5/8"	1.3/8"	12,53
2.5/8"	1.1/2"	11,75
2.5/8"	1.5/8"	10,89
2.5/8"	1.3/4"	9,97
2.5/8"	1.7/8"	8,97
2.5/8"	2"	7,90
2.5/8"	2.1/8"	6,76
2.5/8"	2.1/4"	5,55
2.3/4"	1/2"	17,59
2.3/4"	5/8"	17,31
2.3/4"	3/4"	16,95
2.3/4"	7/8"	16,53
2.3/4"	1"	16,03

Outside Diameter	Inside diameter	Weight
2.3/4"	1.1/8"	15,46
2.3/4"	1.1/4"	14,81
2.3/4"	1.3/8"	14,10
2.3/4"	1.1/2"	13,32
2.3/4"	1.5/8"	12,46
2.3/4"	1.3/4"	11,54
2.3/4"	1.7/8"	10,54
2.3/4"	2"	9,47
2.3/4"	2.1/8"	8,33
2.3/4"	2.1/4"	7,12
2.3/4"	2.3/8"	5,84
2.7/8"	1/2"	19,23
2.7/8"	5/8"	18,95
2.7/8"	3/4"	18,59
2.7/8"	7/8"	18,16

Outside Diameter	Inside diameter	Weight
2.7/8"	1"	17,66
2.7/8"	1.1/8"	17,09
2.7/8"	1.1/4"	16,45
2.7/8"	1.3/8"	15,74
2.7/8"	1.1/2"	14,95
2.7/8"	1.5/8"	14,10
2.7/8"	1.3/4"	13,17
2.7/8"	1.7/8"	12,18
2.7/8"	2"	11,11
2.7/8"	2.1/8"	9,97
2.7/8"	2.1/4"	8,75
2.7/8"	2.3/8"	7,47
2.7/8"	2.1/2"	6,12
3"	1/2"	20,94
3"	5/8"	20,66

Outside Diameter	Inside diameter	Weight
3"	3/4"	20,30
3"	7/8"	19,87
3"	1"	19,37
3"	1.1/8"	18,81
3"	1.1/4"	18,16
3"	1.3/8"	17,45
3"	1.1/2"	16,66
3"	1.5/8"	15,81
3"	1.3/4"	14,88
3"	1.7/8"	13,89
3"	2"	12,82
3"	2.1/8"	11,68
3"	2.1/4"	10,46
3"	2.3/8"	9,18
3"	2.1/2"	7,83

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight
3"	2.5/8"	6,41
3.1/8"	1/2"	22,72
3.1/8"	5/8"	22,44
3.1/8"	3/4"	22,08
3.1/8"	7/8"	21,65
3.1/8"	1"	21,15
3.1/8"	1.1/8"	20,59
3.1/8"	1.1/4"	19,94
3.1/8"	1.3/8"	19,23
3.1/8"	1.1/2"	18,45
3.1/8"	1.5/8"	17,59
3.1/8"	1.3/4"	16,67
3.1/8"	1.7/8"	15,67
3.1/8"	2"	14,60
3.1/8"	2.1/8"	13,46

Outside Diameter	Inside diameter	Weight
3.1/8"	2.1/4"	12,25
3.1/8"	2.3/8"	10,97
3.1/8"	2.1/2"	9,61
3.1/8"	2.5/8"	8,19
3.1/4"	1/2"	24,57
3.1/4"	5/8"	24,29
3.1/4"	3/4"	23,93
3.1/4"	7/8"	23,50
3.1/4"	1"	23,00
3.1/4"	1.1/8"	22,43
3.1/4"	1.1/4"	21,79
3.1/4"	1.3/8"	21,08
3.1/4"	1.1/2"	20,30
3.1/4"	1.5/8"	19,44
3.1/4"	1.3/4"	18,52

Outside Diameter	Inside diameter	Peso
3.1/4"	1.7/8"	17,52
3.1/4"	2"	16,45
3.1/4"	2.1/8"	15,31
3.1/4"	2.1/4"	14,10
3.1/4"	2.3/8"	12,82
3.1/4"	2.1/2"	11,46
3.1/4"	2.5/8"	10,04
3.1/4"	2.3/4"	8,54
3.3/8"	1/2"	26,53
3.3/8"	5/8"	26,24
3.3/8"	3/4"	25,89
3.3/8"	7/8"	25,46
3.3/8"	1"	24,96
3.3/8"	1.1/8"	24,39
3.3/8"	1.1/4"	23,75

Outside Diameter	Inside diameter	Weight
3.3/8"	1.3/8"	23,04
3.3/8"	1.1/2"	22,25
3.3/8"	1.5/8"	21,40
3.3/8"	1.3/4"	20,48
3.3/8"	1.7/8"	19,48
3.3/8"	2"	18,41
3.3/8"	2.1/8"	17,27
3.3/8"	2.1/4"	16,06
3.3/8"	2.3/8"	14,78
3.3/8"	2.1/2"	13,42
3.3/8"	2.5/8"	12,00
3.3/8"	2.3/4"	10,50
3.3/8"	2.7/8"	8,93
3.1/2"	1/2"	28,49
3.1/2"	5/8"	28,21

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight
3.1/2"	3/4"	27,85
3.1/2"	7/8"	27,43
3.1/2"	1"	26,93
3.1/2"	1.1/8"	26,36
3.1/2"	1.1/4"	25,71
3.1/2"	1.3/8"	25,00
3.1/2"	1.1/2"	24,22
3.1/2"	1.5/8"	23,36
3.1/2"	1.3/4"	22,44
3.1/2"	1. 7/8"	21,44
3.1/2"	2"	20,37
3.1/2"	2.1/8"	19,23
3.1/2"	2.1/4"	18,02
3.1/2"	2.3/8"	16,74
3.1/2"	2.1/2"	15,38

Outside Diameter	Inside diameter	Weight
3.1/2"	2.5/8"	13,96
3.1/2"	2.3/4"	12,46
3.1/2"	2.7/8"	10,90
3.1/2"	3"	9,25
3.5/8"	1/2"	30,56
3.5/8"	5/8"	30,28
3.5/8"	3/4"	29,92
3.5/8"	7/8"	29,50
3.5/8"	1.	29,00
3.5/8"	1.1/8"	28,43
3.5/8"	1.1/4"	27,78
3.5/8"	1.3/8"	27,07
3.5/8"	1.1/2"	26,29
3.5/8"	1.5/8"	25,43
3.5/8"	1.3/4"	24,51

Outside Diameter	Inside diameter	Weight
3.5/8"	1.7/8"	23,51
3.5/8"	2"	22,44
3.5/8"	2.1/8"	21,30
3.5/8"	2.1/4"	20,09
3.5/8"	2.3/8"	18,81
3.5/8"	2.1/2"	17,45
3.5/8"	2.5/8"	16,03
3.5/8"	2.3/4"	14,53
3.5/8"	2.7/8"	12,96
3.5/8"	3"	11,32
3.5/8"	3.1/8"	9,61
3.3/4"	1/2"	32,70
3.3/4"	5/8"	32,41
3.3/4"	3/4"	32,06
3.3/4"	7/8"	31,63

Outside Diameter	Inside diameter	Weight
3.3/4"	1"	31,13
3.3/4"	1.1/8"	30,56
3.3/4"	1.1/4"	29,92
3.3/4"	1.3/8"	29,21
3.3/4"	1.1/2"	28,42
3.3/4"	1.5/8"	27,57
3.3/4"	1.3/4"	26,64
3.3/4"	1.7/8"	25,64
3.3/4"	2"	24,57
3.3/4"	2.1/8"	23,44
3.3/4"	2.1/4"	22,22
3.3/4"	2.3/8"	20,94
3.3/4"	2.1/2"	19,59
3.3/4"	2.5/8"	18,16
3.3/4"	2.3/4"	16,66

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight
4"	1.7/8"	30,13	4.1/8"	5/8"	39,24	4.1/8"	2.1/2"	26,42	4.3/8"	1"	42,89
4"	2"	29,06	4.1/8"	3/4"	38,89	4.1/8"	2.5/8"	24,99	4.3/8"	1.1 /8"	42,32
4"	2.1/8"	27,92	4.1/8"	7/8"	38,46	4.1/8"	2.3/4"	23,50	4.3/8"	1.1/4"	41,68
4"	2.1/4"	26,71	4.1/8"	1"	37,96	4.1/8"	2.7/8"	21,93	4.3/8"	1.3/8"	40,97
4"	2.3/8"	25,43	4.1/8"	1.1/8"	37,39	4.1/4"	3"	22,72	4.3/8"	1.1/2"	40,18
4"	2.1/2"	24,07	4.1/8"	1.1 /4"	36,75	4.1/4"	3.1/8"	21,01	4.3/8"	1.5/8"	39,33
4"	2.5/8"	22,65	4.1/8"	1.3/8"	36,04	4.1/4"	3.1/4"	19,23	4.3/8"	1.3/4"	38,40
4"	2.3/4"	21,15	4.1/8"	1.1 /2"	35,25	4.1/4"	3.3/8"	17,34	4.3/8"	1.7/8"	37,40
4"	2.7/8"	19,58	4.1/8"	1.5/8"	34,40	4.1/4"	3.1/2"	15,45	4.3/8"	2"	36,33
4"	3"	17,94	4.1/8"	1.3/4"	33,47	4.1/4"	3.5/8"	13,45	4.3/8"	2.1/8"	35,19
4"	3.1/8"	16,23	4.1/8"	1.7/8"	32,47	4.1/4"	3.3/4"	11,39	4.3/8"	2.1/4"	33,98
4"	3.1/4"	14,45	4.1/8"	2"	31,40	4.3/8"	1/2"	44,46	4.3/8"	2.3/8"	32,70
4"	3.3/8"	12,57	4.1/8"	2.1/8"	30,27	4.3/8"	5/8"	44,17	4.3/8"	2.1/2"	31,34
4"	3.1/2"	10,68	4.1/8"	2.1/4"	29,05	4.3/8"	3/4"	43,82	4.3/8"	2.5/8"	29,92
4.1/8"	1/2"	39,53	4.1/8"	2.3/8"	27,77	4.3/8"	7/8"	43,39	4.3/8"	2.3/4"	28,42

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight
4.3/8"	2.7/8"	26,86	4.1/2"	1.3/4"	40,96	4.1/2"	3.5/8"	18,51	4.5/8"	2.3/8"	37,89
4.3/8"	3"	25,22	4.1/2"	1.7/8"	39,96	4.1/2"	3.3/4"	16,45	4.5/8"	2.1/2"	36,54
4.3/8"	3.1/8"	23,50	4.1/2"	2"	38,89	4.1/2"	3.7/8"	14,31	4.5/8"	2.5/8"	35,11
4.3/8"	3.1/4"	21,72	4.1/2"	2.1/8"	37,76	4.1/2"	4"	12,10	4.5/8"	2.3/4"	33,62
4.3/8"	3.3/8"	19,84	4.1/2"	2.1/4"	36,54	4.5/8"	1"	48,08	4.5/8"	2.7/8"	32,05
4.3/8"	3.1/2"	17,95	4.1/2"	2.3/8"	35,26	4.5/8"	1.1/8"	47,51	4.5/8"	3"	30,41
4.3/8"	3.5/8"	15,95	4.1/2"	2.1/2"	33,91	4.5/8"	1.1/4"	46,87	4.5/8"	3.1/8"	28,70
4.3/8"	3.3/4"	13,89	4.1/2"	2.5/8"	32,48	4.5/8"	1.3/8"	46,16	4.5/8"	3.1/4"	26,92
4.3/8"	3.7/8"	11,75	4.1/2"	2.3/4"	30,98	4.5/8"	1.1/2"	45,37	4.5/8"	3.3/8"	25,03
4.1/2"	1"	45,45	4.1/2"	2.7/8"	29,42	4.5/8"	1.5/8"	44,52	4.5/8"	3.1/2"	23,14
4.1/2"	1.1 /8"	44,88	4.1/2"	3"	27,78	4.5/8"	1.3/4"	43,59	4.5/8"	3.5/8"	21,14
4.1/2"	1.1/4"	44,24	4.1/2"	3.1/8"	26,06	4.5/8"	1.7/8"	42,60	4.5/8"	3.3/4"	19,08
4.1/2"	1.3/8"	43,53	4.1/2"	3.1/4"	24,29	4.5/8"	2"	41,53	4.5/8"	3.7/8"	16,94
4.1/2"	1.1/2"	42,74	4.1/2"	3.3/8"	22,40	4.5/8"	2.1/8"	40,39	4.5/8"	4"	14,73
4.1/2"	1.5/8"	41,89	4.1/2"	3.1/2"	20,51	4.5/8"	2.1/4"	39,17	4.5/8"	4.1/8"	12,46

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight
4.3/4"	1"	50,79	4.3/4"	2.7/8"	34,76	4.7/8"	1.3/8"	51,64	4.7/8"	3.1/4"	32,40
4.3/4"	1.1/8"	50,22	4.3/4"	3"	33,12	4.7/8"	1.1/2"	50,85	4.7/8"	3.3/8"	30,51
4.3/4"	1.1/4"	49,58	4.3/4"	3.1/8"	31,41	4.7/8"	1.5/8"	50,00	4.7/8"	3.1/2"	28,62
4.3/4"	1.3/8"	48,87	4.3/4"	3.1/4"	29,63	4.7/8"	1.3/4"	49,07	4.7/8"	3.5/8"	26,62
4.3/4"	1.1/2"	48,09	4.3/4"	3.3/8"	27,74	4.7/8"	1.7/8"	48,07	4.7/8"	3.3/4"	24,56
4.3/4"	1.5/8"	47,23	4.3/4"	3.1/2"	25,85	4.7/8"	2"	47,00	4.7/8"	3.7/8"	22,42
4.3/4"	1.3/4"	46,30	4.3/4"	3.5/8"	23,85	4.7/8"	2.1/8"	45,87	4.7/8"	4"	20,22
4.3/4"	1.7/8"	45,31	4.3/4"	3.3/4"	21,79	4.7/8"	2.1/4"	44,65	4.7/8"	4.1/8"	17,94
4.3/4"	2"	44,24	4.3/4"	3.7/8"	19,65	4.7/8"	2.3/8"	43,37	4.7/8"	4.1/4"	15,58
4.3/4"	2.1/8"	43,10	4.3/4"	4"	17,44	4.7/8"	2.1/2"	42,02	4.7/8"	4.3/8"	13,16
4.3/4"	2.1/4"	41,89	4.3/4"	4.1/8"	15,17	4.7/8"	2.5/8"	40,59	5"	1"	56,41
4.3/4"	2.3/8"	40,60	4.3/4"	4.1/4"	12,81	4.7/8"	2.3/4"	39,09	5"	1.1/8"	55,84
4.3/4"	2.1/2"	39,25	4.7/8"	1"	53,56	4.7/8"	2.7/8"	37,53	5"	1.1/4"	55,20
4.3/4"	2.5/8"	37,83	4.7/8"	1.1/8"	52,99	4.7/8"	3"	35,89	5"	1.3/8"	54,49
4.3/4"	2.3/4"	36,33	4.7/8"	1.1/4"	52,35	4.7/8"	3.1/8"	34,18	5"	1.1/2"	53,70

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight
5"	1.5/8"	52,85	5"	3.1/2"	31,48	5.1/8"	1.3/4"	54,85	5.1/8"	3.5/8"	32,40
5"	1.3/4"	51,92	5"	3.5/8"	29,48	5.1/8"	1.7/8"	53,85	5.1/8"	3.3/4"	30,34
5"	1.7/8"	50,93	5"	3.3/4"	27,41	5.1/8"	2"	52,78	5.1/8"	3.7/8"	28,19
5"	2"	49,86	5"	3.7/8"	25,27	5.1/8"	2.1/8"	51,64	5.1/8"	4"	25,99
5"	2.1/8"	48,72	5"	4"	23,07	5.1/8"	2.1/4"	50,43	5.1/8"	4.1/8"	23,71
5"	2.1/4"	47,51	5"	4.1/8"	20,79	5.1/8"	2.3/8"	49,15	5.1/8"	4.1/4"	21,36
5"	2.3/8"	46,23	5"	4.1/4"	18,44	5.1/8"	2.1/2"	47,79	5.1/8"	4.3/8"	18,93
5"	2.1/2"	44,87	5"	4.3/8"	16,01	5.1/8"	2.5/8"	46,37	5.1/8"	4.1/2"	16,44
5"	2.5/8"	43,45	5"	4.1/2"	13,52	5.1/8"	2.3/4"	44,87	5.1/8"	4.5/8"	13,88
5"	2.3/4"	41,95	5.1/8"	1"	59,34	5.1/8"	2.7/8"	43,31	5.1/4"	1"	62,34
5"	2.7/8"	40,38	5.1/8"	1.1/8"	58,77	5.1/8"	3"	41,67	5.1/4"	1.1/8"	61,77
5"	3"	38,74	5.1/8"	1.1/4"	58,13	5.1/8"	3.1/8"	39,95	5.1/4"	1.1/4"	61,12
5"	3.1/8"	37,03	5.1/8"	1.3/8"	57,42	5.1/8"	3.1/4"	38,17	5.1/4"	1.3/8"	60,41
5"	3.1/4"	35,25	5.1/8"	1.1/2"	56,63	5.1/8"	3.3/8"	36,29	5.1/4"	1.1/2"	59,63
5"	3.3/8"	33,37	5.1/8"	1.5/8"	55,78	5.1/8"	3.1/2"	34,40	5.1/4"	1.5/8"	58,77

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight
5.1/4"	1.3/4"	57,85	5.1/4"	3.5/8"	35,40	5.3/8"	1.5/8"	61,84	5.3/8"	3.1/2"	40,46
5.1/4"	1.7/8"	56,85	5.1/4"	3.3/4"	33,33	5.3/8"	1.3/4"	60,91	5.3/8"	3.5/8"	38,46
5.1/4"	2"	55,78	5.1/4"	3.7/8"	31,19	5.3/8"	1.7/8"	59,92	5.3/8"	3.3/4"	36,40
5.1/4"	2.1/8"	54,64	5.1/4"	4"	28,99	5.3/8"	2"	58,85	5.3/8"	3.7/8"	34,26
5.1/4"	2.1/4"	53,43	5.1/4"	4.1/8"	26,71	5.3/8"	2.1/8"	57,71	5.3/8"	4"	32,05
5.1/4"	2.3/8"	52,15	5.1/4"	4.1/4"	24,35	5.3/8"	2.1/4"	56,50	5.3/8"	4.1/8"	29,78
5.1/4"	2.1/2"	50,79	5.1/4"	4.3/8"	21,93	5.3/8"	2.3/8"	55,22	5.3/8"	4.1/4"	27,42
5.1/4"	2.5/8"	49,37	5.1/4"	4.1/2"	19,44	5.3/8"	2.1/2"	53,86	5.3/8"	4.3/8"	25,00
5.1/4"	2.3/4"	47,87	5.1/4"	4.5/8"	16,88	5.3/8"	2.5/8"	52,44	5.3/8"	4.1/2"	22,51
5.1/4"	2.7/8"	46,30	5.1/4"	4.3/4"	14,24	5.3/8"	2.3/4"	50,94	5.3/8"	4.5/8"	19,95
5.1/4"	3"	44,66	5.3/8"	1.	65,40	5.3/8"	2.7/8"	49,37	5.3/8"	4.3/4"	17,30
5.1/4"	3.1/8"	42,95	5.3/8"	1.1/8"	64,83	5.3/8"	3"	47,73	5.3/8"	4.7/8"	14,60
5.1/4"	3.1/4"	41,17	5.3/8"	1.1/4"	64,19	5.3/8"	3.1/8"	46,02	5.1/2"	1"	68,53
5.1/4"	3.3/8"	39,29	5.3/8"	1.3/8"	63,48	5.3/8"	3.1/4"	44,24	5.1/2"	1.1/8"	67,96
5.1/4"	3.1/2"	37,39	5.3/8"	1.1/2"	62,70	5.3/8"	3.3/8"	42,35	5.1/2"	1.1/4"	67,32

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Peso	Outside Diameter	Inside diameter	Weight
5.1/2"	1.3/8"	66,61	5.1/2"	3.5/8"	41,59	5.5/8"	1.5/8"	68,16	5.5/8"	3.3/4"	42,72
5.1/2"	1.1/2"	65,83	5.1/2"	3.3/4"	39,52	5.5/8"	1.3/4"	67,23	5.5/8"	3.7/8"	40,58
5.1/2"	1.5/8"	64,97	5.1/2"	3.7/8"	37,38	5.5/8"	1.7/8"	66,24	5.5/8"	4"	38,38
5.1/2"	1.3/4"	64,04	5.1/2"	4"	35,18	5.5/8"	2"	65,17	5.5/8"	4.1/8"	36,10
5.1/2"	1.7/8"	63,05	5.1/2"	4.1/8"	32,90	5.5/8"	2.1/8"	64,03	5.5/8"	4.1/4"	33,75
5.1/2"	2"	61,98	5.1/2"	4.1/4"	30,55	5.5/8"	2.1/4"	62,82	5.5/8"	4.3/8"	31,32
5.1/2"	2.1/8"	60,84	5.1/2"	4.3/8"	28,12	5.5/8"	2.3/8"	61,54	5.5/8"	4.1/2"	28,83
5.1/2"	2.1/4"	59,63	5.1/2"	4.1/2"	25,63	5.5/8"	2.1/2"	60,18	5.5/8"	4.5/8"	26,27
5.1/2"	2.3/8"	58,35	5.1/2"	4.5/8"	23,07	5.5/8"	2.5/8"	58,76	5.5/8"	4.3/4"	23,63
5.1/2"	2.1/2"	56,99	5.1/2"	4.3/4"	20,43	5.5/8"	2.3/4"	57,26	5.5/8"	4.7/8"	20,93
5.1/2"	2.5/8"	55,57	5.1/2"	4.7/8"	17,73	5.5/8"	2.7/8"	55,69	5.5/8"	5"	18,15
5.1/2"	2.3/4"	54,07	5.1/2"	5"	14,95	5.5/8"	3"	54,05	5.5/8"	5.1/8"	15,30
5.1/2"	3"	50,86	5.5/8"	1"	71,72	5.5/8"	3.1/8"	52,34	5.3/4"	1"	75,00
5.1/2"	3.1/8"	49,15	5.5/8"	1.1/8"	71,15	5.5/8"	3.1/4"	50,56	5.3/4"	1.1/8"	74,44
5.1/2"	3.1/4"	47,37	5.5/8"	1.1 /4"	70,51	5.5/8"	3.3/8"	48,68	5.3/4"	1.1 /4"	73,79
5.1/2"	3.3/8"	45,48	5.5/8"	1.3/8"	69,80	5.5/8"	3.1/2"	46,79			
5.1/2"	3.1/2"	43,59	5.5/8"	1.1 /2"	69,01	5.5/8"	3.5/8"	44,79			

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Peso	Outside Diameter	Inside diameter	Weight
5.3/4"	1.3/8"	73,08	5.3/4"	3.1/2"	50,08	5.7/8"	2.1/4"	69,45	5.7/8"	4.3/8"	37,95
5.3/4"	1.1/2"	72,30	5.3/4"	3.5/8"	48,08	5.7/8"	2.3/8"	68,17	5.7/8"	4.1/2"	35,46
5.3/4"	1.5/8"	71,44	5.3/4"	3.3/4"	46,01	5.7/8"	2.1/2"	66,82	5.7/8"	4.5/8"	32,90
5.3/4"	1.3/4"	70,52	5.3/4"	3.7/8"	43,87	5.7/8"	2.5/8"	65,39	5.7/8"	4.3/4"	30,26
5.3/4"	1.7/8"	69,52	5.3/4"	4"	41,67	5.7/8"	2.3/4"	63,89	5.7/8"	4.7/8"	27,56
5.3/4"	2"	68,45	5.3/4"	4.1/8"	39,39	5.7/8"	2.7/8"	62,33	5.7/8"	5"	24,77
5.3/4"	2.1/8"	67,32	5.3/4"	4.1/4"	37,04	5.7/8"	3"	60,69	5.7/8"	5.1/8"	21,93
5.3/4"	2.1/4"	66,11	5.3/4"	4.3/8"	34,61	5.7/8"	3.1/8"	58,97	5.7/8"	5.1/4"	19,00
5.3/4"	2.3/8"	64,83	5.3/4"	4.1/2"	32,12	5.7/8"	3.1/4"	57,20	5.7/8"	5.3/8"	16,01
5.3/4"	2.1/2"	63,47	5.3/4"	4.5/8"	29,56	5.7/8"	3.3/8"	55,31	6"	2"	75,23
5.3/4"	2.5/8"	62,05	5.3/4"	4.3/4"	26,92	5.7/8"	3.1/2"	53,42	6"	2.1/8"	74,09
5.3/4"	2.3/4"	60,55	5.3/4"	4.7/8"	24,21	5.7/8"	3.5/8"	51,42	6"	2.1/4"	72,88
5.3/4"	2.7/8"	58,99	5.3/4"	5"	21,43	5.7/8"	3.3/4"	49,36	6"	2.3/8"	71,60
5.3/4"	3"	57,34	5.3/4"	5.1/8"	18,59	5.7/8"	3.7/8"	47,22	6"	2.1/2"	70,24
5.3/4"	3.1/8"	55,63	5.3/4"	5.1/4"	15,66	5.7/8"	4"	45,01	6"	2.5/8"	68,82
5.3/4"	3.1/4"	53,85	5.7/8"	2"	71,80	5.7/8"	4.1/8"	42,73			
5.3/4"	3.3/8"	51,97	5.7/8"	2.1/8"	70,67	5.7/8"	4.1/4"	40,38			

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight
6"	2.3/4"	67,32	6"	4.7/8"	30,98	6.1/4"	4.3/4"	40,74	6.1/2"	5.1/2"	30,76
6"	2.7/8"	65,75	6"	5"	28,20	6.1/4"	5"	35,25	6.3/4"	2"	97,23
6"	3"	64,11	6"	5.1/8"	25,35	6.1/4"	5.1/4"	29,48	6.3/4"	2.1/4"	94,88
6"	3.1/8"	62,40	6"	5.1/4"	22,43	6.1/2"	2"	89,62	6.3/4"	2.1/2"	92,24
6"	3.1/4"	60,62	6"	5.3/8"	19,43	6.1/2"	2.1/4"	87,27	6.3/4"	2.3/4"	89,32
6"	3.3/8"	58,74	6"	5.1/2"	16,37	6.1/2"	2.1/2"	84,63	6.3/4"	3"	86,11
6"	3.1/2"	56,84	6.1/4"	2"	82,28	6.1/2"	2.3/4"	81,71	6.3/4"	3.1/4"	82,62
6"	3.5/8"	54,85	6.1/4"	2.1/4"	79,93	6.1/2"	3"	78,50	6.3/4"	3.1/2"	78,85
6"	3.3/4"	52,78	6.1/4"	2.1/2"	77,29	6.1/2"	3.1/4"	75,01	6.3/4"	3.3/4"	74,79
6"	3.7/8"	50,64	6.1/4"	2.3/4"	74,37	6.1/2"	3.1/2"	71,24	6.3/4"	4"	70,44
6"	4"	48,44	6.1/4"	3"	71,17	6.1/2"	3.3/4"	67,17	6.3/4"	4.1/4"	65,81
6"	4.1/8"	46,16	6.1/4"	3.1/4"	67,67	6.1/2"	4"	62,83	6.3/4"	4.1/2"	60,89
6"	4.1/4"	43,80	6.1/4"	3.1/2"	63,90	6.1/2"	4.1/4"	58,20	6.3/4"	4.3/4"	55,69
6"	4.3/8"	41,38	6.1/4"	3.3/4"	59,84	6.1/2"	4.1/2"	53,28	6.3/4"	5"	50,21
6"	4.1/2"	38,89	6.1/4"	4"	55,49	6.1/2"	4.3/4"	48,07	6.3/4"	5.1/4"	44,44
6"	4.5/8"	36,33	6.1/4"	4.1/4"	50,86	6.1/2"	5"	42,58			
6"	4.3/4"	33,69	6.1/4"	4.1/2"	45,94	6.1/2"	5.1/4"	36,81			

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Peso	Outside Diameter	Inside diameter	Weight
6.3/4"	5.1/2"	38,38	7.1/2"	3"	110,69	8.1/2"	3.1/2"	140,20	9.1/2"	6.1/2"	113,98
6.3/4"	5.3/4"	32,04	7.1/2"	3.1/2"	103,42	8.1/2"	4"	131,80	9.1/2"	7"	98,73
7"	2"	105,13	7.1/2"	4"	95,02	8.1/2"	4.1/2"	122,25	9.1/2"	7.1/2"	82,34
7"	2.1/4"	102,78	7.1/2"	4.1/2"	85,47	8.1/2"	5"	111,56	9.1/2"	8"	64,81
7"	2.1/2"	100,15	7.1/2"	5"	74,78	8.1/2"	5.1/2"	99,73	9.1/2"	8.1/2"	46,15
7"	2.3/4"	97,23	7.1/2"	5.1/2"	62,96	8.1/2"	6"	86,76	10"	4"	195,49
7"	3"	94,02	7.1/2"	6"	49,99	8.1/2"	6.1/2"	72,65	10"	4.1/2"	185,94
7"	3.1/4"	90,53	7.1/2"	6.1/2"	35,88	9"	4"	151,89	10"	5"	175,25
7"	3.1/2"	86,75	8"	3"	128,50	9"	4.1/2"	142,34	10"	5.1/2"	163,43
7"	3.3/4"	82,69	8"	3.1/2"	121,23	9"	5"	131,65	10"	6"	150,46
7"	4"	78,35	8"	4"	112,82	9"	5.1/2"	119,82	10"	6.1/2"	136,35
7"	4.1/4"	73,72	8"	4.1/2"	103,28	9"	6"	106,85	10"	7"	121,10
7"	4.1/2"	68,80	8"	5"	92,59	9.1/2"	4"	173,12	10"	7.1/2"	104,71
7"	4.3/4"	63,60	8"	5.1/2"	80,77	9.1/2"	4.1/2"	163,57	10"	8"	87,19
7"	5"	58,11	8"	6"	67,80	9.1/2"	5"	152,88	10.1/2"	4"	219,00
7"	5.1/4"	52,34	8"	6.1/2"	53,69	9.1/2"	5.1/2"	141,05			
7"	5.1/2"	46,29	8.1/2"	3"	147,45	9.1/2"	6"	128,09			

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight	Outside Diameter	Inside diameter	Weight
10.1/2"	4.1/2"	209,45	11"	8"	135,35	12"	6"	251,35
10.1/2"	5"	198,77	11"	8.1/2"	116,68	12"	6.1/2"	237,24
10.1/2"	5.1/2"	186,94	11"	9"	96,87	12"	7"	221,99
10.1/2"	6"	173,97	11.1/2"	4"	270,69	12"	7.1/2"	205,60
10.1/2"	6.1/2"	159,86	11.1/2"	4.1/2"	261, 14	12"	8"	188,07
10.1/2"	7"	144,61	11.1/2"	5"	250,46	12"	8.1/2"	169,40
10.1/2"	7.1/2"	128,23	11.1/2"	5.1/2"	238,63	12"	9"	149,60
10.1/2"	8"	110,70	11.1/2"	6"	225,66	12"	9.1/2"	128,65
10.1/2"	9"	72,22	11.1/2"	6.1/2"	211,55	12"	10"	106,56
11"	4"	243,65	11.1/2"	7"	196,30	12"	10.1/2"	83,33
11"	4.1/2"	234, 11	11.1/2"	7.1/2"	179,92	12"	11"	58,96
11"	5"	223,42	11.1/2"	8"	162,39	13"	5"	333,43
11"	5.1/2"	211,59	11.1/2"	8.1/2"	143,72	13"	6"	308,63
11"	6"	198,62	12"	4"	296,38	13"	7"	279,27
11"	6.1/2"	184,51	12"	4.1/2"	286,83	13"	8"	245,36
11"	7"	169,27	12"	5"	276, 14	13"	9"	206,88
11"	7.1/2"	152,88	12"	5.1/2"	264,31	13"	10"	163,84

bronze

BUSHING WEIGHT PER PIECE WITH 500MM

Outside Diameter	Inside diameter	Weight
13"	11"	116,25
13"	12"	64,09
14"	5"	395,27
14"	6"	370,47
14"	7"	341,12
14"	8"	307,20
14"	9"	268,72
14"	10"	225,69
14"	11"	178,09
14"	12"	125,93
14"	13"	69,22

Outside Diameter	Inside diameter	Weight
15	5"	461,67
15	6"	436,88
15	7"	407,52
15	8"	373,60
15	9"	335,13
15	10"	292,09
15	11"	244,49
15	12"	192,34
15	13"	135,62
15	14"	74,35