

ZA-12 BEARING STOCK HOLLOW ROUNDS

Semi-continuously cast ZA-12 bearing stock is available in standard sizes up to 6" OD. Continuous casting provides soundness and uniformity of composition, structure and properties. Con-Cast ZA-12 stock has excellent surface finish and requires minimal finishing for most sleeve bearing applications.

MACHINING ALLOWANCE	LENGTHS
Sizes listed are nominal diameters. Actual product diameters include 1/8 in. allowance on both I.D. and O.D. for finishing.	Lengths are available up to 10 ft. random.

TOLERANCES			
STRAIGHTNESS		CONCENTRICITY	
Less than .050 in. deviation in any 12 inches. Maximum curvature (depth of arc) less than 1/2 inch in any 10 ft. length		The outside periphery is concentric with the bore within a maximum variation of 5% of the nominal wall thickness for all sizes of stock.	
ROUNDNESS		DIAMETER	
O.D.(in.)	Maximum Out Of Roundness (in.)	SIZE O.D. (in.)	TOLERANCE O.D. (in.) I.D. (in.)
Up to 4 inclusive Over 4	.010 .015	3/4 – 2 incl.	± 0.010 ± 0.012 – 0.033
		over 2 to 4 excl.	± 0.015 ± 0.012 – 0.033
		4 to 5 incl.	± 0.025 ± 0.016 – 0.046
		over 5	± 0.025 ± 0.032 – 0.064

ZA-12 BAR STOCK			
Composition (%) (ASTM B86)	Aluminum	10.5	– 11.5
	Copper	0.5	– 1.2
	Magnesium	0.015	– 0.030
	Zinc	Balance	
Properties*	As Cast		Aged**
	Tensile Strength (ksi)	61-69	41-47
	Yield Strength – 0.2% offset (ksi)	45-58	30-38
	Elongation (%)	1-4	9-11
	Hardness (BHN @ 250 kg load - 5 mm ball)	130-150	41-47
Density (lb./in. ³)	0.218		

* Properties depend on size and wall thickness. Smaller diameters and thinner walls have higher strength.
** 10 days at 95°C – fully aged

STOCK SIZES

I.D. (in.)	O.D. (in.)	lb./ft.	I.D. (in.)	O.D. (in.)	lb./ft.
1	2	7.7	2 3/4	3 1/2	12.8
1	2 1/2	12.6	2 3/4	3 3/4	16.7
1	3	18.5	2 3/4	4	20.8
1 1/2	2 1/2	10.3	2 3/4	4 1/4	25.2
1 1/2	3	16.2	2 3/4	4 1/2	29.8
1 1/2	3 1/8	17.8	2 3/4	4 3/4	34.7
1 1/2	3 1/4	19.5	3	3 3/4	13.9
1 1/2	3 1/2	23.1	3	4	18.0
1 3/4	2 1/2	8.7	3	4 1/4	22.3
1 3/4	3	14.6	3	4 1/2	27.0
1 3/4	3 1/8	16.3	3	4 3/4	31.8
1 3/4	3 1/4	18.0	3	5	37.0
1 3/4	3 1/2	21.6	3 1/4	4	14.9
1 3/4	3 3/4	25.4	3 1/4	4 1/4	19.3
2	3	12.8	3 1/4	4 1/2	23.9
2	3 1/8	14.5	3 1/4	5	33.9
2	3 1/4	16.2	3 1/4	5 1/4	39.3
2	3 1/2	19.8	3 1/2	4 1/4	15.9
2	3 3/4	23.6	3 1/2	4 1/2	20.5
2	4	27.7	3 1/2	4 3/4	25.4
2 1/4	3	10.8	3 1/2	5	30.6
2 1/4	3 1/8	12.4	3 1/2	5 1/4	36.0
2 1/4	3 1/4	14.1	3 1/2	5 1/2	41.6
2 1/4	3 1/2	17.7	4	4 3/4	18.0
2 1/4	3 3/4	21.6	4	5	23.1
2 1/4	4	25.7	4	5 1/4	28.5
2 1/4	4 1/4	30.0	4	5 1/2	34.2
2 1/2	3 1/4	11.8	4	6	46.2
2 1/2	3 1/2	15.4	4 1/2	5 1/4	20.0
2 1/2	3 3/4	19.3	4 1/2	5 1/2	25.7
2 1/2	4	23.4	4 1/2	6	37.8
2 1/2	4 1/4	27.7	5	6	28.2
2 1/2	4 1/2	32.4			

Other sizes are available to specific order

Please contact us for further assistance:

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