

Materion BrushBronze® 95510 (AMS 4880) Centrifugal Cast 0.250" - 1.0"

Category : Metal , Nonferrous Metal , Copper Alloy , Bronze , Copper Casting Alloy

Material Notes:

Information supplied by Brush Wellman Engineered Materials. BrushBronze® 95510 is an Aluminum-Nickel-Bronze alloy that combines high strength, ductility, and good abrasion resistance under severe loading conditions. This material, specified as AMS 4880, is frequently used for very demanding aerospace applications, including, but not limited to: bushings, spherical and rod end bearings, rub pads, and wear strips. This material is also commonly used for applications in the oil and gas and other durable goods markets. BrushBronze® 95510 (AMS 4880) offers several significant advantages over other materials available in the marketplace due to the EquaCast® process: Higher and more consistent mechanical properties, Improved service life, Superior quality, Ease of use, Cost effectiveness. Brush Engineered Materials Inc. changed its name to Materion Corporation in March 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Materion-BrushBronze-95510-AMS-4880-Centrifugal-Cast-0250-10.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	724 MPa	105000 psi	
Tensile Strength, Yield	431 MPa	62500 psi	
Elongation at Break	9.0 %	9.0 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	9.7 - 10.9 %	9.7 - 10.9 %	
Copper, Cu	>= 78 %	>= 78 %	
Iron, Fe	2.0 - 3.5 %	2.0 - 3.5 %	
Manganese, Mn	<= 1.5 %	<= 1.5 %	
Nickel, Ni	4.5 - 5.5 %	4.5 - 5.5 %	
Tin, Sn	<= 0.20 %	<= 0.20 %	
Zinc, Zn	<= 0.30 %	<= 0.30 %	

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