

Mueller EcoStream™ C36300 Copper Zinc Lead Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

As one of the low lead alloys offered in the EcoStream™ family of products, Mueller Brass Company's C36300 alloy provides a viable alternative to those manufacturers who are manufacturing products and components that require compliance with the recently approved "Reduction of Lead in Drinking Water Act." The legislation re-defines the term "lead free" to mean "no more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, plumbing fittings and fixtures." No Silicon " No Bismuth " No Segregation Mueller Brass Company's C36300 alloy provides a lower lead brass alloy option that aids with the compliance strategies of manufacturers who seek an alternative that is not only COMPLIANT, but also COMPETITIVE and COMPATIBLE with standard free cutting and forgings alloys commonly used today. Having significantly less copper than alternative alloys offered by other manufacturers, and not displacing the lead with potentially detrimental additives like bismuth or silicon, C36300 is a competitive solution that affords compliance while maintaining critical aspects of productivity and efficiencies. The turnings, chips and other resulting scrap generated from C36300 is completely compatible with the free cutting (i.e. C36000) and forging alloys (C37700) used industry wide. By virtually eliminating the necessity to segregate, clean out machines, or potentially risk contaminating "conventional" scrap, valuable machine time is further maximized. Advantages: Excellent machinability Good hot forgeability Excellent capability for brazing and plating Excellent ability to thread rolled Improved resistance to dezincification Applications: Screw machine parts and components for potable water products requiring lead free compliance Forged parts and components for potable water products requiring lead free compliance Information Provided by Mueller Industries Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mueller-EcoStream-C36300-Copper-Zinc-Lead-Alloy.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	65	65	Rod H02
	@Diameter 25.4 mm	@Diameter 1.00 in	
	68	68	Rod H02
	@Diameter 12.7 - 25.4 mm	@Diameter 0.500 - 1.00 in	
Tensile Strength	379 MPa	55000 psi	Rod H02
	@Diameter 25.4 mm	@Diameter 1.00 in	
	414 MPa	60000 psi	Rod H02
	@Diameter 12.7 - 25.4 mm	@Diameter 0.500 - 1.00 in	
Tensile Strength, Yield	138 MPa	20000 psi	Rod H02
	@Diameter 25.4 mm	@Diameter 1.00 in	
	172 MPa	25000 psi	Rod H02
	@Diameter 12.7 - 25.4 mm	@Diameter 0.500 - 1.00 in	

Mechanical Properties	Metric	English	Comments
Elongation at Break	@Diameter 12.7 - 25.4 mm	@Diameter 0.500 - 1.00 in	Rod H02
	15 %	15 %	Rod H02
	@Diameter <=25.4 mm	@Diameter <=1.00 in	

Component Elements Properties	Metric	English	Comments
Copper, Cu	61 - 63 %	61 - 63 %	
Iron, Fe	<= 0.15 %	<= 0.15 %	
Lead, Pb	0.25 - 0.70 %	0.25 - 0.70 %	
Phosphorous, P	0.040 - 0.15 %	0.040 - 0.15 %	
Zinc, Zn	35.50 - 38.71 %	35.50 - 38.71 %	Remainder

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