

Mueller Ecostreamâ, ¢ GreenDropâ, ¢ C27451 DZR Lead Free Plumbing Brass

Category: Metal, Nonferrous Metal, Copper Alloy, Brass

Material Notes:

To further compliment its EcoStreamâ,¢ family of alloys, Mueller Brass Company has developed a dezincification resistant version of its GreenDropâ,¢ C27450 Lead Free Brass Alloy. This new alloy, C27451, is currently patent pending and is specifically designed for machined or forged parts and components requiring compliance to both lead free and dezincification resistance criteria adopted by potable water and PEX standards and applications. Compliant • Competitive • Compatable Although specifically developed for parts requiring compliance to dezincification resistance standards; Mueller Brass Company's C27451 alloy still retains the same inherent advantages over other lead free alloys offered by other manufacturers. With the customer as its core focus, Mueller Brass Company developed C27451 to not only aide manufacturers with their compliance needs, but also develop an alloy that would help manufacturers control their material costs and retain their competitive advantage. Since no expensive additives or potential contaminants like silicon or bismuth are added, C27451 DZR Lead Free Brass is completely recyclable and compatible with all EcoStreamâ,¢ and conventional leaded alloys widely used today. Since the need for segregation, the cleaning out of machines or the rejection of contaminated scrap is virtually eliminated; C27451 offers the manufacturer the additional benefits of manufacturing efficiency and productivity. Advantanges: Good machinabilityExcellent forgeabilityExcellent brazing and platingExcellent ability to Thread RollDezincification ResistantApplications:Potable water components, fixtures and applicationsPEX plumbing applications and systemsForged products requiring lead free and/or dezincification complianceInformation Provided by Mueller Industries Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mueller-Ecostream-GreenDrop-C27451-DZR-Lead-Free-Plumbing-Brass.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	55 - 75	55 - 75	
Tensile Strength at Break	379 MPa	55000 psi	
Tensile Strength, Yield	241 MPa	35000 psi	
Elongation at Break	30 %	30 %	
Machinability	70 %	70 %	
Forgeability	95 %	95 %	

Component Elements Properties	Metric	English	Comments	
Copper, Cu	60 - 65 %	60 - 65 %		
Iron, Fe	<= 0.35 %	<= 0.35 %		
Lead, Pb	<= 0.25 %	<= 0.25 %		
Other	<= 0.50 %	<= 0.50 %		
Phosphorous, P	0.050 - 0.12 %	0.050 - 0.12 %		



Component Elements Properties	33.79 - 39.95 % Metric	33 72 - 39 95 % English	Comments	
Descriptive Properties		Value	Comments	
Brazing		Excellent		
Cold Working		Excellent		
Plating		Excellent		
Soldering		Excellent		

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