

Mueller Alloy 3600 Free Cutting Brass (UNS C36000)

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

Machinability: Recently amended and revised to reflect a lower maximum lead percentage; C36000 remains the industry standard for general machining and high volume production. The excellent machinability characteristic of C36000 permits full utilization of a screw machine's capabilities. **Workability:** Alloy C36000 has a poor capacity to be hot worked. It can be moderately cold worked. However, it is recommended that this be followed by stress relieving at 500 degrees for 1.5 hours to reduce the possibility of stress corrosion cracking. **Applications:** Free Cutting Brass include general machining and high volume production where the alloy's excellent machinability can permit full utilization of the screw machine's capabilities. With the lower maximum lead content, manufacturers are afforded greater latitude in their designs for lead free compliant component and products. Typical applications include plumbing components and products, fittings, adapters, valve stems, and miscellaneous screw machine parts. Information Provided by Mueller Industries Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mueller-Alloy-3600-Free-Cutting-Brass-UNS-C36000.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	72	72	
Tensile Strength at Break	386 MPa	56000 psi	
Tensile Strength, Yield	310 MPa	45000 psi	
Elongation at Break	25 %	25 %	
Machinability	100 %	100 %	

Component Elements Properties	Metric	English	Comments
Copper, Cu	60 - 63 %	60 - 63 %	
Iron, Fe	<= 0.35 %	<= 0.35 %	
Lead, Pb	2.5 - 3.0 %	2.5 - 3.0 %	
Zinc, Zn	33.7 - 37.5 %	33.7 - 37.5 %	Remainder

Processing Properties	Metric	English	Comments
Processing Temperature	260 Â°C	500 Â°F	Stress Relieving

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