



Emhart Teknologies
Industrial Division

4 Shelter Rock Lane
Danbury, CT 06810

Tel. (203) 790-5000
Fax (203) 778-8409
www.emhart.com

DODGE Inserts

Please review our position as it relates to the Initial Hazardous Substances noted in the European RoHS and WEEE initiatives.

The material used in DODGE brass inserts used is 360 brass, which falls under the designation, UNS C36000 ½ hard free-cutting brass. The CDA specification is C360, ½ hard per ASTM B-16. The following is a chemical breakdown of the material as listed in the above-mentioned specifications:

- 1) Copper, 63.0% Max. – 60.0% Min.
- 2) Lead (Non-Water Soluble), 3.7% Max. – 2.5% Min.
- 3) Iron, .35% Max.
- 4) Other material then listed, .5% Max.
- 5) Zinc, Remaining Percentage

As shown in the chemical composition, there is a concern with the lead content. The alloy requires 2.5% to 3.7% of the material to be non-water soluble lead.

This material is approved and considered “Lead-Free” by the US Environmental Protection Agency under USF Standard 61, Section 9. Additionally, UNS C36000 brass is an approved material for the manufacturing of plumbing fittings and fixtures for drinking water systems, under the Safe Drinking Water Act, Section 1417. The term “Lead-Free” applies to any approved copper alloy that contains less than 4% lead. In practice this means the lead content is considered captive and no concern of contamination exists to the environment or workforce by handling and processing of this alloy. Since both European Directives noted, 2000/53/EC and 2002/95/EC, have exemptions noted within them for copper alloys with lead contain up to 4%, we are in compliance with these regulations at this time.

In addition, Dodge inserts do not contain dimethyl fumarate per EU directive 17/03/2009 no. 2009/251/CE.

Emhart Teknologies is considered a world leader in the manufacturing of engineered fasteners. We are continually looking as new materials that are hitting the market, as well as existing products from all over the world.

If you have any questions or if we can be of further assistance with this matter, please do not hesitate to contact us at any time.

John Carvalho

John Carvalho
Director of Manufacturing