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**Ref: Environmental Conformance – DODGE® Brand Inserts**

The material used in DODGE Brass inserts 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.

- Copper, 63% Max – 60% Min
- Lead (Non water soluble) 3.7% Max – 2.5% Min
- Iron 0.35% Max.
- Other material listed 0.5% Max
- Zinc, Remaining percentage

As shown in the chemical composition, there is a concern with the lead content. The alloy required 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 the 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 Water Drinking 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 concerns of contamination exist to the environment or workforce by handling and processing this alloy. Since both European Directives noted 2000/53/EC and 2011/65/EU 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 Dimethylfumerate per EU Directive 2009/251/EC.

Emhart Teknologies LLC, a business division of Stanley Engineered Fastening, 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 global products.

Should you need any further detail please do not hesitate to give me a call.

Yours sincerely,



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