

JMD INDUSTRIES INC.

ONE PARK AVENUE
HUDSON, NH 03051

TEL 603-882-3198
FAX 603-882-7747

JMD Industries, Inc Restriction of Hazardous Substance

JMD has received many letters, emails and phone calls in regards to our efforts to meet the European Union's Restriction of Hazardous Substance (RoHS). This presents a challenge for all of us and will take cooperation from all parties, from our suppliers straight to your end-customers. JMD is excited and eager to implement processes that will meet all requirements of RoHS. Unfortunately, this will take much time, effort and expense to convert a plating shop of our size. In this industry, and at JMD specifically, we are always willing to help make improvements, especially when it concerns the environment. You can be assured that JMD has a plan to become compliant with RoHS; which is attached for your review. This plan is in process and as with any major change it is subject to timeline revisions, however, the end goal will remain intact. You can expect to hear from us with progress updates as they are accomplished.

Thank You,



James DeDeus
Vice President
JMD Industries, Inc

RoHS compliance plan

- JMD currently uses a trivalent chromate on all Zinc Clear and Zinc Blue plated parts. We have used this type of chromate for over two years.
- JMD currently uses a hexavalent chromate on all Zinc Yellow plated parts. Recently a trivalent yellow chromate has been made available that will meet ASTM and Military standards. We are in the process of buying this product and making room for it on our plating lines. This trivalent chromate is a two step chromating process and the hexavalent chromate we are replacing is only a one step process. Due to the addition of steps some major changes need to be done on our plating lines to accommodate the added tanks needed. This will take some time, but we plan on having this new chromate implemented in the winter of 2006. A final date is not available but I will pass that information on when we have it.
- The last of the hexavalent chromate that JMD needs to convert is its chromate on aluminum. However, a Yellow trivalent chromate is not available for aluminum that meets ASTM or military standards. Until a product is out on the market we are in limbo. Various chemical suppliers are researching this issue, but are having a difficult time coming up with a yellow that is acceptable. When we have more information on this I will be in contact with you. JMD has purchased a trivalent clear chromate that does meet ASTM and Military standards. We are in the process of testing parts finished with this compliant clear chromate and expect salt spray and paint adhesion results soon. If all goes as plan we will be able to offer this process by the end of November.
- JMD currently has a RoHS compliant anodize line.

- JMD Currently has a RoHS compliant Bright Tin line.
- JMD currently has a RoHS compliant Bright Nickel line.
- JMD currently has a RoHS compliant Passivate line.
- JMD currently has a RoHS compliant Copper line.
- JMD has changed it Electroless Nickel line to a RoHS compliant Cadmium free plating bath. This product meets RoHS standards but is a dull finish compared to the previous Electroless Nickel we have been using. We have expressed our concerns with this to our supplier and they are working to address our concerns. However, at this time there is no alternative product that will produce a brighter finish and maintain RoHS compliance.