



December 23, 2009

## **Micrometals Iron Powder cores coated with Parylene "C" and the new Halogen restrictions**

Attention Purchasing, Engineering and Chemical Compliance Departments:

We are aware that some customer applications require the Halogen Bromine (Br), and Chlorine (Cl) content in the products to be less than 900 ppm as individual elements and a combined total less than 1500 ppm. It is important to note Micrometals cores coated with Parylene C will not pass these requirements.

The cores coated with Parylene C are toroids with part prefix "T20" and smaller, small geometry cores such as the TR or BLN series and any part with a "/94" suffix.

If a halogen compliant part is necessary, Micrometals suggest using a core coated with Parylene N rather than Parylene C. Our evaluation indicates cores coated with Parylene N will directly substitute for Parylene C in most cases, however, it is important to be aware the alternate coating has slightly different physical properties. Our tests indicate the "C" coating will provide more robust protection than "N" for aggressive windings. If this is a concern we suggest that your engineering staff reviews this issue and evaluate samples before proceeding with a change.

If you decide that a coating material change is necessary, please contact Micrometals and a new part number will be issued.

If you have any further questions regarding Halogen restrictions or alternate coating materials, please contact me at [sanderson@micrometals.com](mailto:sanderson@micrometals.com).

Best regards,

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