

BALVER ZINN[®]

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Balver Zinn to Demonstrate New i-SAC Series of Optimized Solder at Productronica 2009

BALVE, GERMANY — November 2009 — The BALVER ZINN Group, a leading provider of high-quality alloyed solder anodes, as well as special cored and solid wires, will demonstrate the new **i-SAC series** of optimized **Alloyed Lead-Free Solders** in **Hall A4, Stand 570** of the upcoming Productronica exhibition - scheduled to take place 10th – 13th November 2009 at the New Munich Trade Fair Center in Munich, Germany.

BALVER ZINN will present products in this new family of solders, based on the 'Iowa State Patent', for which they hold a license.

First in the line up is **i-SAC 387 Solder**, with the addition of Cobalt (Co). The melting characteristic of silver containing alloys has been improved with the addition of Cobalt to offer an optimized lead-free solder solution. Cobalt produces shiny solder joints with a fine grain microstructure, in comparison to standard SnAg3.8Cu0.7.

The BALVER ZINN i-SAC387 Solder also has the addition of Germanium (Ge), which plays the role of antioxidant, preferentially reacting with oxygen to protect the solder from the oxidation that results in the formation of dross. i-SAC387 has a melting point of 217°C and a specific gravity of 7.5 g/cm³.

The second in the new series is **Tin Silver based i-SAC Solder Family i-SAC105**. The melting characteristic of silver containing alloys has been improved with the addition of Cobalt (Co). BALVER ZINN's Solder i-SAC105, with silver composition on request between 0.5 – 1.5%, offers a winning combination of the advantages of silver free alloys and the characteristics of silver containing alloys - as for example SnAg3.0Cu0.5. i-SAC105 produces low priced, bright and shiny solder joints and a fine grain microstructure – even with this low addition of silver content. As with the previous product, Cobalt is responsible for a homogenous microstructure in comparison to standard SnAg alloys. A formulation including Germanium (Ge) again plays the role of antioxidant, preferentially reacting with oxygen to protect the solder from the oxidation that results in the formation of dross. i-SAC105 has a melting point of 217°C to 227°C and a specific gravity of 7.4 g/cm³.

Further technical information on how i-SAC can be incorporated into your process can be found via www.balverzinn.com.

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