World novelty from Heraeus Electronics: DCB+ substrates with pre-applied solder simplify the production process for power electronics

DCB+ substrates with pre-applied solder reduce process steps for chip assembly by 50 percent
The new service portfolio from DCB+ offers numerous extra features and services for manufacturing individual DCB substrates

As an important part of its new add-ons and services portfolio for Direct Copper Bonded (DCB+) substrates, Heraeus Electronics is introducing DCB substrates with pre-applied solder pads, which reduce the number of process steps for chip attachment by 50%. The printing and more importantly the residue cleaning process aren’t required anymore, which were critical and time consuming. Furthermore, the DCB+ substrates with pre-applied solder substantially reduce solder splatters, thereby improving yield. Savings on facility investments and consumables are a further benefit of this innovation.

Added value thanks to additional features of DCB+
Beyond premium alumina DCBs, Heraeus is offering a comprehensive portfolio of additional features and services from the following four categories: properties, options, services, and processing. Customers can then benefit from more flexibility, customized solutions, and simplified production processes.

Thanks to its unique expertise, Heraeus is significantly expanding the range of services for DCB substrates and offers customers added value through custom substrates with special characteristics.

Ready for the future
“With DCB+ we are bundling all of our areas of expertise and offering our customers custom Direct Copper Bonding substrates for sophisticated applications,” says Martin Sattler, Head of Customer Solutions at Heraeus Electronics. “The expansion of our product portfolio to include well-matched material systems ensures our leading position on the electronics market for the future.”

For additional information, go to www.heraeus/pre-soldered_dcb

Heraeus, the technology group headquartered in Hanau, Germany, was founded in 1851 and today is a globally leading, family-owned company. With technical expertise, a focus on innovation, operational excellence and entrepreneurial leadership, we constantly strive to improve our business performance. We create high-quality solutions for our clients and strengthen their competitiveness in the long term by combining material expertise with technological know-how. Our ideas are focused on themes such as the environment, energy, health, mobility, and industrial applications. Our portfolio includes everything from components to coordinated
material systems, and our products are used in a wide variety of industries, including the steel, electronics, chemical, automotive, and telecommunications industries. In the 2016 fiscal year, Heraeus earned total revenues of €21.6 billion. With around 12,400 employees worldwide in more than 100 subsidiaries in 40 countries, Heraeus holds a leading position in its global markets.

In 2016, Heraeus was named one of the Top 10 Family Businesses in Germany by the Foundation for Family Businesses.

Heraeus has been present and active in the Greater China region, one of its top 3 markets, for more than 40 years. Today we have more than 2,500 employees in 20 locations across the region.

**Media contact:**
Kevin Chen
Communications Manager
Heraeus Greater China Regional Headquarters
Phone: + 86 21 3357 5261
Fax: + 86 21 3357 5230
E-Mail: kevin.chen@heraeus.com
Website: www.heraeus.com