

## HERAEUS ELECTRONICS



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Heraeus Holding GmbH, headquartered in Hanau, Germany, is a leading international family-owned company founded in 1851. The technology group is constantly striving to improve its business performance through technical competence, a focus on innovation, operational excellence, and entrepreneurial leadership. Combining material and technological expertise, Heraeus's high-quality solutions ensure that users are, and remain, highly competitive. The company's portfolio of products, ranging from components to coordinated material systems, is used in the steel, electronics, chemical, automotive, and telecommunications industries, among others.

As a technology company, Heraeus is well-versed in the specialized requirements of electronics such as those used in automobiles, electric trains, industrial engines, and wind turbines.

### From materials to system solutions

The technology group has made a name for itself in integrated circuit and mounting technologies with such high-performance products as soldering and sinter pastes, bonding wires and ribbons, terminals and lead frames, and copper thick film pastes. The Heraeus Material Systems portfolio program is now expanding to include metal-ceramic substrates (e.g. DCBs) and coordinated material systems. Customers use these primarily for power electronics, for example in sophisticated applications in the fields of automotive and industrial electronics. Heraeus is positioning itself in the market as a provider of system solutions that offers customers matched, prequalified and/or ready-made material systems. This makes Heraeus a reliable partner with regard to individual products and topics; the company's expertise on specific



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materials also enables it to create entire material systems. Providing these complete packages and solutions allows Heraeus to enter into an innovative, co-operative exchange with its customers and users. This makes it possible to better coordinate process and development capacities and reduce development time and costs.

### Application center

To develop material systems more quickly and systematically, Heraeus opened a new application, research, and development center for electronics/power electronics at its Hanau site in 2015. There, employees are developing new materials and material systems like those mentioned above. They are also building prototypes and modules, and testing them to ensure that they meet customer specifications and application requirements. Heraeus takes into account the entire value chain and is already thinking about the demands of material technology several years from now.