

**Press Release****Heraeus Electronics, MacDermid Alpha Electronics Solutions and Henkel Win Patent Dispute Against Senju Group**

Hanau, February 24, 2025 – Heraeus Electronics, Alpha Assembly Solutions (a legal entity of MacDermid Alpha Electronics Solutions) and Henkel have successfully concluded the patent dispute against Senju Group (Senju Metal Industry Co., Ltd., Senju Metal Europe GmbH and Senju Manufacturing Europe S.R.O.) relating to the infringement of the patent EP 1 617 968 B1 in Germany by the M794 solder alloy material. In the dispute, Heraeus Electronics, Alpha Assembly Solutions and Henkel succeeded in both patent infringement proceedings and related patent nullity proceedings.

After Senju withdrew their appeal to the German Federal Court of Justice on January 17, 2025, the Federal Patent Court's judgment of August 31, 2023, which upheld the patent-in-suit with certain restrictions, has now become final.

Previously, the District Court Frankfurt had rendered a judgment in the patent infringement proceedings on April 3, 2024, confirming Senju's infringement of the patent EP 1 617 968 B1 in Germany by the M794 solder alloy material. This decision has also become final, after Senju withdrew their appeal to the Higher Regional Court Frankfurt on July 3, 2024.

The infringement judgment had granted motions for declaration of liability for damages, injunction, and the recall of infringing products, namely Senju's M794 solder material from its industrial customers in Germany.

EP 1 617 968 B1 has lapsed in the meantime but has an active counterpart in the US (patent no.: US 10,376,994 B2).

The judgments in both proceedings are now legally binding. They reinforce the significance of intellectual property protection in the electronics assembly industry and uphold the commitment of the plaintiffs to defend their innovative materials.

The patentees sell solder alloy formulation, marketed under the brand names Innolot® (Heraeus Electronics and MacDermid Alpha Electronics Solutions) and Multicore 90ISC (Harima Chemicals Group, formerly Loctite® 90ISC Henkel), representing a breakthrough in lead-free solder technology. Developed through a cooperative project, these materials offer improved reliability performance, particularly in harsh environment electronics applications. They are designed to withstand high temperatures while remaining solderable at standard lead-free process temperatures, making them ideal for automotive applications and other demanding environments.

**About Heraeus Electronics**

Heraeus Electronics is a leading manufacturer of materials for the assembly and packaging of devices in the electronics industry. The company develops material solutions for the automotive, power electronics and advanced semiconductor packaging market and offers its customers a broad product portfolio - from materials and material systems to services.

**About MacDermid Alpha Electronics Solutions**

MacDermid Alpha Electronics Solutions, a prominent business of Element Solutions Inc, holds a distinguished position as a global leader in the field of fully integrated materials, helping to deliver enhanced performance, reliability, and sustainability to electronic manufacturers worldwide.

Their expertise is segmented as follows:

- **Wafer Level Solutions:** Revolutionizing wafer fabrication processes for enhanced efficiency and performance.
- **Semiconductor Assembly Solutions:** Driving innovation in semiconductor assembly processes for unparalleled reliability.
- **Circuitry Solutions:** Tailored solutions to meet the dynamic demands of modern circuitry.
- **Circuit Board Assembly Solutions:** Elevating circuit board assembly processes for optimal performance.
- **Film & Smart Surface Solutions:** Transforming electronics with cutting-edge materials and technologies for enhanced functionality and reliability.

With a legacy spanning over a century of innovation, MacDermid Alpha has garnered the trust of manufacturers around the globe and is actively shaping industries such as automotive, consumer electronics, mobile devices, telecom, data storage, and infrastructure. The business is uniquely positioned to deliver high-quality solutions and technical services to comprehensively cover the entire electronics supply chain.

### **About Henkel**

With its brands, innovations and technologies, Henkel holds leading market positions worldwide in the industrial and consumer businesses. The business unit Adhesive Technologies is the global leader in the market for adhesives, sealants and functional coatings. With Consumer Brands, the company holds leading positions especially in laundry & home care and hair in many markets and categories around the world. The company's three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2023, Henkel reported sales of more than 21.5 billion euros and adjusted operating profit of around 2.6 billion euros. Henkel's preferred shares are listed in the German stock index DAX. Sustainability has a long tradition at Henkel, and the company has a clear sustainability strategy with specific targets. Henkel was founded in 1876 and today employs a diverse team of about 48,000 people worldwide – united by a strong corporate culture, shared values and a common purpose: "Pioneers at heart for the good of generations." More information at [www.henkel.com](http://www.henkel.com)

### **For more information, contact:**

Heraeus Electronics:

Anja Ziegler

[Anja.Ziegler@heraeus.com](mailto:Anja.Ziegler@heraeus.com)

MacDermid Alpha Electronics Solutions:

Joanna Locke

[Joanna.Locke@macdermidalpha.com](mailto:Joanna.Locke@macdermidalpha.com)

Henkel:

Sebastian Hinz

[Sebastian.Hinz@henkel.com](mailto:Sebastian.Hinz@henkel.com)