

December 10, 2020 DIC Corporation

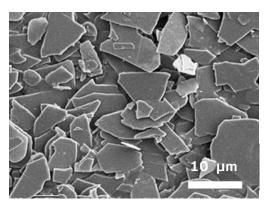
DIC Develops Distinctive CeramNex[™] AP10 Flake Alumina Filler

—Imparts outstanding strength and heat dissipating properties to electronics components and is expected to contribute to the proliferation of CASE vehicles and 5G-enabled devices—

Tokyo, Japan—DIC Corporation announced today the development of *CeramNex*TM AP10, a distinctive flake alumina filler that imparts heat dissipating properties to components for electronics equipment and other applications. The new product is scheduled for launch in January 2021 and will be sold exclusively through trading firm Nagase & Co., Ltd. Going forward, DIC aims to expand the range of products in the *CeramNex*TM AP10 lineup and to achieve sales of ¥800 million by 2025, focusing on automotive and electronics equipment component manufacturers in Japan, the People's Republic of China (PRC), the Republic of Korea (ROK), Taiwan, Europe and the United States.

The growing importance of the CASE (Connected, Autonomous, Shared and Electric)* concept and the deployment of the 5G cellular telecommunications standard continue to drive the trend toward ever-smaller components with more sophisticated performance features in both the automobile and electronics industries. As a consequence, the dissipation of heat generated inside equipment is an increasingly important consideration. Alumina fillers, which offer superb thermal stability, are used to impart heat dissipating properties to automotive and electronics equipment components. Compounding formulations involving a large amount of alumina filler are common because they add thermal conductivity to resin, but a high filler content hinders moldability and reduces the mechanical strength of the resulting molded components.

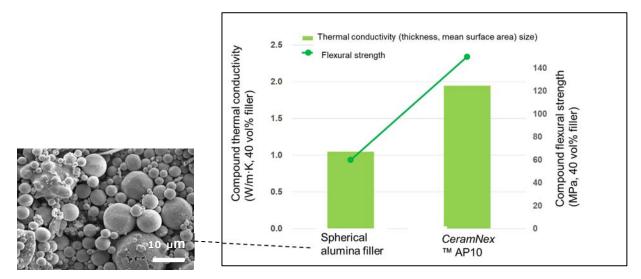
Unlike conventional alumina fillers comprising spherical or irregular particles, *CeramNex*[™] AP10—which is synthesized using an original process—boasts excellent crystallinity and high aspect ratio flake-shaped particles. As a consequence, greater strength can be achieved with the addition of a smaller amount, thereby helping reduce weight. Moreover, superior surface uniformity means that DIC's new product is suitable as an additive for applications in areas other than the automobile and electronics industries.



CeramNex[™] AP10 flake alumina filler

News Release





Performance comparison of resin compounds made with spherical alumina filler and *CeramNex™* AP10

The DIC Group is working to create businesses in response to environment, safety and health (ESH)related issues and social changes in line with its New Pillar Creation strategy, one of two basic strategies outlined in its DIC111 medium-term management plan. While efforts focus on businesses underpinned by organic materials technologies, the Group will build on the development of *CeramNex*[™] AP10 to add inorganic materials technologies to its portfolio, positioning it to expand into businesses that would have been problematic with its existing basic technologies.

* The words from which the acronym CASE is formed describe four key areas—vehicle connectivity, autonomous driving, shared mobility and electrification—in which next-generation technologies and services are defining the future of the automobile industry.

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About DIC Corporation

DIC Corporation is one of the world's leading fine chemicals companies, with top shares of the global printing inks, organic pigments and polyphenylene sulfide (PPS) compounds markets. Established in 1908 as a manufacturer of printing inks, DIC has capitalized on its capabilities in organic pigments and synthetic resins to build a broad portfolio of products for diverse industries, including automobiles, electronics, food and housing. DIC is also the core of the DIC Group, a multinational organization with operations in more than 60 countries and territories worldwide.

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|------------------------|--|
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