

Thermally Conductive Filler Dispersants Market by Dispersant Structure Type (Silicone-Based, Non-Silicone Based), Filler Material (Ceramic, Metal, Carbon-Based), Application (Thermal Insulation Glue), End-Use Industry, & Region - Global Forecast to 2028

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Abstracts

The global thermally conductive filler dispersants market size is projected to reach USD 0.4 billion by 2028 from USD 0.3 billion in 2023, at a CAGR of 10.2% during the forecast period. The ever-increasing demand for conductive filler dispersants in emerging markets owing to rising demand of LI-ion batteries to improve performance and high-density electronic products. Additionally, the demand for conductive filler dispersants in emerging countries such as Asia Pacific, North America, and Middle East & Africa, is increasing due to the rising demand for compact, high performance, and high-density electronic products, increasing adoption of electric vehicle, and growth in consumer electronics has fueled the conductive filler dispersants market during the forecast period.

“Silicone is the second largest in terms of value amongst other dispersant types in the thermally conductive filler dispersants market, in 2022.”

Silicone-based thermally conductive filler dispersants are widely used in various industries such as electronics, automotive, healthcare, aerospace, and telecommunication for heat dissipation applications. They are dispensed to fill air gaps and voids in electronic components. They work with heat sinks or metal cases to dissipate heat from critical electronic parts. These non-adhesive curing silicones form a soft, stress-absorbing interface and fill uneven areas to improve cooling.

“Metal fillers are the third largest in terms of value amongst other filler materials in the

thermally conductive filler dispersants market, in 2022.”

Metal fillers such as silver, copper, and aluminum have high thermal conductivity, which is essential for efficient heat dissipation in various industries. They offer controllable heat conducting efficiency, which is important for applications where specific thermal conductivity requirements need to be met. In addition, these filler materials comprise metal particles with diameters less than 20 μm , which is important for achieving uniform dispersion and optimal thermal conductivity in thermally conductive polymer composites.

“Energy is projected to be the third largest in terms of value amongst other end-use industries in the thermally conductive filler dispersants market, in 2022.”

Conductive fillers have been filled into dispersants to create electrically conductive composites (ECCs) that are used in printed electronics. Surface engineering techniques have been developed to modify the conductive fillers, enabling tailor-made surface functionalities and charges. The use of thermally conductive filler dispersants can help to achieve efficient heat dissipation in the energy sector for various applications. In addition, metal particles such as copper, aluminum, and silver are common thermal conductive fillers that can be used in thermally conductive filler dispersants for energy applications. They offer high heat conducting efficiency and controllable thermal conductivity.

“Europe is the third largest in the thermally conductive filler dispersants market in 2022.”

Europe is the third largest region amongst others in the thermally conductive filler dispersants market in 2022, in terms of value. The growing medical device industry, increase in innovation and development in TIMs, rising production base of the medical device and electronics industry are expected to enhance market growth during the forecast. Thermal insulation glue is the largest segment of the thermally conductive filler dispersants market in Europe. They are used as they can spread a very thin bond line. Therefore, if the co-planarity of the substrate allows, a much lower thermal resistance can be achieved. Phase change materials are the fastest-growing sub-segment in the European market due to their easy application and increased use in computers application. All these factors are projected to drive the thermally conductive filler dispersants market in the region.

The breakdown of primary interviews has been given below.

By Company Type: Tier 1 – 40%, Tier 2 – 30%, and Tier 3 – 30%

By Designation: C Level Executives – 20%, Director Level – 10%, Others – 70%

By Region: North America – 20%, Europe – 30%, Asia Pacific – 30%, Middle East & Africa – 10%, South America-10%.

The key players in the thermally conductive filler dispersants market BYK (Germany), Shin-Etsu Chemical (Japan), Dow Chemical Company (US), JNC Corporation (Japan), Momentive Performance Materials (US), Kusumoto Chemicals (Japan), Evonik (Germany), Croda International (UK), Lubrizol Corporation (US), and Wacker Chemie (Germany) among others. The thermally conductive filler dispersants market report analyzes the key growth strategies, such as new product launches, investments & expansions, agreements, partnerships, and mergers & acquisitions to strengthen their market positions.

Research Coverage

This report provides detailed segmentation of the thermally conductive filler dispersants market and forecasts its market size until 2028. The market has been segmented based on dispersant type (silicone, non-silicone), filler material (ceramic, metal, carbon), application (thermal insulation glue, potting glue, plastic, rubber, heat dissipation ceramic, coatings), end-use industry (electronics, automotive, energy, building & construction, industrial, aerospace) and region (North America, Europe, Asia Pacific, Middle East & Africa, and South America). A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisitions associated with the market for the thermally conductive filler dispersants market.

Key benefits of buying this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the thermally conductive filler dispersants market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Growing demand for consumer electronics products, Increasing demand from the automotive industry for electric vehicles), restraints (Complexity in controlling filler dispersion, Cost considerations, Technological limitations), opportunities (Development of new and improved fillers, Increasing demand for fuel-efficient and high-end home appliance products), and challenges (Filler content and processing, Compatibility with different polymers) influencing the growth of the thermally conductive filler dispersants market.

Market Penetration: Comprehensive information on the thermally conductive filler dispersants market offered by top players in the global thermally conductive filler dispersants market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the thermally conductive filler dispersants market.

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for thermally conductive filler dispersants market across regions.

Market Diversification: Exhaustive information about new products, growing geographies, and recent developments in the thermally conductive filler dispersants market.

Competitive Assessment: In-depth assessment of market segments, growth strategies, revenue analysis, and products of the leading market players.

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*Details on Business overview, Products/Solutions/Services offered, Recent developments, Product launches, MnM view, Key strengths, Strategic choices, and Weaknesses and competitive threats might not be captured in case of unlisted companies.

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