

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

<https://marketpublishers.com/r/TE8AE91A0450EN.html>

Date: August 2023

Pages: 258

Price: US\$ 4,950.00 (Single User License)

ID: TE8AE91A0450EN

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.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 INCLUSIONS AND EXCLUSIONS

TABLE 1 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET: INCLUSIONS AND EXCLUSIONS

1.4 MARKET SCOPE

FIGURE 1 THERMALLY CONDUCTIVE FILLER DISPERSANTS: MARKET SEGMENTATION

1.4.1 YEARS CONSIDERED

1.5 CURRENCY CONSIDERED

1.6 UNITS CONSIDERED

1.7 STAKEHOLDERS

1.8 IMPACT OF RECESSION

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 List of major secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Primary list

2.1.2.1.1 Demand and supply sides

2.1.2.2 Key data from primary sources

2.1.2.3 Key industry insights

2.1.2.4 Breakdown of primary interviews

2.2 MARKET SIZE ESTIMATION

FIGURE 3 DEMAND SIDE: MARKET SIZE ESTIMATION APPROACH

2.2.1 BOTTOM-UP APPROACH

FIGURE 4 BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

FIGURE 5 TOP-DOWN APPROACH

2.3 DATA TRIANGULATION

FIGURE 6 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET: DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.5 GROWTH RATE ASSUMPTIONS/GROWTH FORECAST

2.5.1 SUPPLY SIDE

2.5.2 DEMAND SIDE

2.6 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 7 SILICONE SEGMENT TO REGISTER HIGHEST CAGR OF OVERALL THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET

FIGURE 8 CERAMIC TO BE FASTEST-GROWING FILLER MATERIAL OF THERMALLY CONDUCTIVE FILLER DISPERSANTS DURING FORECAST PERIOD

FIGURE 9 ASIA PACIFIC TO BE FASTEST-GROWING REGION DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET

FIGURE 10 EMERGING ECONOMIES TO OFFER ATTRACTIVE OPPORTUNITIES IN THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET DURING FORECAST PERIOD

4.2 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE

FIGURE 11 NON-SILICONE SEGMENT TO LEAD THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET DURING FORECAST PERIOD

4.3 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL

FIGURE 12 CERAMIC SEGMENT TO WITNESS HIGHEST DEMAND IN THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET

4.4 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION

FIGURE 13 HEAT DISSIPATION CERAMIC SEGMENT TO WITNESS HIGHEST DEMAND IN THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET

4.5 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY

FIGURE 14 ELECTRONICS SEGMENT TO WITNESS HIGHEST DEMAND IN THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET

4.6 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY
FIGURE 15 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET IN INDIA
TO GROW AT HIGHEST CAGR FROM 2023 TO 2028

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 RECESSION IMPACT

5.3 MARKET DYNAMICS

FIGURE 16 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN
THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET

5.3.1 DRIVERS

5.3.1.1 Rising demand for miniaturization of electronic devices

5.3.1.2 Rising demand from new applications

5.3.2 RESTRAINTS

5.3.2.1 Stringent government regulations and environmental constraints

5.3.3 OPPORTUNITIES

5.3.3.1 Emergence of IoT and 5G technology

5.3.3.2 Rising advancements in nanotechnology

5.3.4 CHALLENGES

5.3.4.1 Selection and optimization of thermal interface materials

5.4 VALUE CHAIN ANALYSIS

FIGURE 17 OVERVIEW OF THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET VALUE CHAIN

5.4.1 RAW MATERIAL SUPPLIERS

5.4.2 MANUFACTURERS OF DISPERSANT

5.4.3 DISTRIBUTORS

5.4.4 END-USE INDUSTRIES

TABLE 2 THERMALLY CONDUCTIVE FILLER DISPERSANTS: VALUE CHAIN
STAKEHOLDERS

5.5 PORTER'S FIVE FORCES ANALYSIS

FIGURE 18 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET:
PORTER'S FIVE FORCES ANALYSIS

5.5.1 THREAT OF SUBSTITUTES

5.5.2 BARGAINING POWER OF SUPPLIERS

5.5.3 THREAT OF NEW ENTRANTS

5.5.4 BARGAINING POWER OF BUYERS

5.5.5 INTENSITY OF COMPETITIVE RIVALRY

TABLE 3 THERMALLY CONDUCTIVE FILLER DISPERSANTS: PORTER'S FIVE

FORCES ANALYSIS

5.6 MACROECONOMIC INDICATORS

5.6.1 GLOBAL GDP TRENDS

TABLE 4 TRENDS OF PER CAPITA GDP (USD) 2020–2022

TABLE 5 GDP GROWTH ESTIMATE AND PROJECTION, BY KEY COUNTRY, 2023–2027

5.7 TARIFFS & REGULATIONS

5.7.1 REGULATIONS

5.7.1.1 Europe

5.7.1.2 US

5.7.1.3 China

5.7.2 STANDARDS

5.8 CASE STUDY ANALYSIS

5.8.1 ENHANCING LED COOLING WITH THERMAL CONDUCTIVE FILLER DISPERSANTS BY THERMALTECH SOLUTIONS

5.8.2 ENHANCING EFFICIENCY IN HIGH-PERFORMANCE ELECTRONICS BY ELECTROTECH SOLUTIONS

5.9 TECHNOLOGY ANALYSIS

5.9.1 NEW TECHNOLOGIES: THERMALLY CONDUCTIVE FILLER DISPERSANTS

5.10 ECOSYSTEM MAPPING

FIGURE 19 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET ECOSYSTEM

5.11 KEY CONFERENCES & EVENTS IN 2023–2024

TABLE 6 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET: DETAILED LIST OF CONFERENCES & EVENTS

5.12 KEY FACTORS AFFECTING BUYING DECISION

5.12.1 QUALITY

5.12.2 SERVICE

FIGURE 20 SUPPLIER SELECTION CRITERION

5.13 AVERAGE SELLING PRICE ANALYSIS

5.13.1 AVERAGE SELLING PRICE, BY REGION

FIGURE 21 AVERAGE SELLING PRICE, BY REGION (USD/KILOTON)

5.13.2 AVERAGE SELLING PRICE, BY DISPERSANT TYPE

TABLE 7 AVERAGE SELLING PRICE, BY DISPERSANT TYPE (USD/KILOTON)

5.13.3 AVERAGE SELLING PRICE, BY FILLER MATERIAL

TABLE 8 AVERAGE SELLING PRICE, BY FILLER MATERIAL (USD/KILOTON)

5.14 PATENT ANALYSIS

5.14.1 INTRODUCTION

5.14.2 DOCUMENT TYPE

FIGURE 22 PATENTS REGISTERED, 2012–2022

5.14.3 PUBLICATION TRENDS – LAST 10 YEARS

FIGURE 23 NUMBER OF PATENTS IN LAST 10 YEARS

5.14.4 INSIGHT

5.14.5 JURISDICTION ANALYSIS

FIGURE 24 TOP JURISDICTIONS

5.14.6 TOP COMPANIES/APPLICANTS

FIGURE 25 TOP APPLICANTS' ANALYSIS

TABLE 9 LIST OF PATENTS BY FUJIFILM CORPORATION

TABLE 10 LIST OF PATENTS BY 3M INNOVATIVE PROPERTIES COMPANY

TABLE 11 LIST OF PATENTS BY MITSUBISHI CHEMICAL CORPORATION

TABLE 12 TOP 10 PATENT OWNERS (US) IN LAST 10 YEARS

6 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE

6.1 INTRODUCTION

FIGURE 26 NON–SILICONE TO BE LARGEST DISPERSANT TYPE SEGMENT DURING FORECAST PERIOD

TABLE 13 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2019–2022 (USD MILLION)

TABLE 14 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2023–2028 (USD MILLION)

TABLE 15 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2019–2022 (TON)

TABLE 16 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2023–2028 (TON)

6.2 SILICONE

6.2.1 SUITABLE FOR WIDE RANGE OF APPLICATIONS

6.3 NON–SILICONE

6.3.1 EASY OPERABILITY, SHATTER RESISTANCE, AND LIGHTWEIGHT PROPERTIES

6.3.2 POLYMERIC

6.3.3 CARBOXYL

6.3.4 AMINE

6.4 OTHER DISPERSANT TYPES

7 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL

7.1 INTRODUCTION

FIGURE 27 CERAMIC FILLER MATERIAL TO BE LARGEST SEGMENT DURING FORECAST PERIOD

TABLE 17 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2019–2022 (USD MILLION)

TABLE 18 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2023–2028 (USD MILLION)

TABLE 19 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2019–2022 (TON)

TABLE 20 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2023–2028 (TON)

7.2 CERAMIC FILLERS

7.2.1 EXCELLENT THERMAL CONDUCTIVITY AND ELECTRICAL INSULATION MAKE THEM SUITABLE FOR WIDE RANGE OF APPLICATIONS

7.2.2 ALUMINA (Al_2O_3)

7.2.3 MAGNESIUM OXIDE (MGO)

7.2.4 ALUMINUM HYDROXIDE ($\text{Al}(\text{OH})_3$)

7.2.5 BORON NITRIDE (BN)

7.3 METAL FILLERS

7.3.1 METAL FILLERS SUITABLE FOR ENHANCING THERMAL CONDUCTIVITY OF POLYMER/CERAMIC COMPOSITES

7.3.2 ALUMINUM NITRIDE (ALN)

7.3.3 OTHER METAL FILLERS

7.4 CARBON-BASED FILLERS

7.4.1 EXCELLENT THERMAL CONDUCTIVITY PROPERTY MAKES THEM SUITABLE FOR ENHANCING HEAT TRANSFER WITHIN COMPOSITE

7.4.2 CARBON FIBER

7.4.3 CARBON BLACK

7.4.4 GRAPHITE

7.4.5 CARBON NANOTUBE

7.5 OTHER FILLER MATERIALS

8 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 28 THERMAL INSULATION GLUE TO BE LARGEST APPLICATION SEGMENT DURING FORECAST PERIOD

TABLE 21 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY

APPLICATION, 2019–2022 (USD MILLION)

TABLE 22 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 23 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2019–2022 (KILOTON)

TABLE 24 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2023–2028 (KILOTON)

8.2 THERMAL INSULATION GLUE

8.3 POTTING GLUE

8.4 PLASTIC

8.5 RUBBER

8.6 HEAT DISSIPATION CERAMICS

8.7 COATINGS

8.8 OTHERS

9 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY

9.1 INTRODUCTION

FIGURE 29 ELECTRONICS TO BE LARGEST SEGMENT DURING FORECAST PERIOD

TABLE 25 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 26 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 27 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (KILOTON)

TABLE 28 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2023–2028 (KILOTON)

9.2 ELECTRONICS

9.2.1 DISPERSANTS HELP MAINTAIN CONSISTENT THERMAL PROPERTIES ACROSS INTERFACE, ENSURING EFFICIENT HEAT FLOW

9.2.2 LITHIUM–ION BATTERY

9.2.3 SENSORS

9.2.4 THERMAL INTERFACE MATERIALS

9.3 AUTOMOTIVE

9.3.1 ELECTRIC VEHICLES UTILIZE LITHIUM–ION BATTERIES THAT GENERATE HEAT DURING CHARGING AND DISCHARGING

9.4 ENERGY

9.4.1 EFFICIENT HEAT EXCHANGE CRUCIAL FOR OPTIMAL ENERGY CONVERSION IN CONVENTIONAL POWER PLANTS

9.5 BUILDING & CONSTRUCTION

9.5.1 INCORPORATION INTO INSULATION MATERIALS TO ENHANCE THERMAL CONDUCTIVITY

9.6 INDUSTRIAL

9.6.1 NUMEROUS BENEFITS RELATED TO HEAT MANAGEMENT, EQUIPMENT EFFICIENCY, AND OVERALL OPERATIONAL PERFORMANCE

9.7 AEROSPACE

9.8 OTHER END-USE INDUSTRIES

10 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 30 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET IN INDIA
TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 29 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
REGION, 2019–2022 (USD MILLION)

TABLE 30 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
REGION, 2023–2028 (USD MILLION)

TABLE 31 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
REGION, 2019–2022 (TON)

TABLE 32 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
REGION, 2023–2028 (TON)

10.2 ASIA PACIFIC

10.2.1 RECESSION IMPACT

FIGURE 31 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET SNAPSHOT

TABLE 33 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 34 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 35 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY COUNTRY, 2019–2022 (TON)

TABLE 36 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY COUNTRY, 2023–2028 (TON)

TABLE 37 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY DISPERSANT TYPE, 2019–2022 (USD MILLION)

TABLE 38 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY DISPERSANT TYPE, 2023–2028 (USD MILLION)

TABLE 39 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY DISPERSANT TYPE, 2019–2022 (TON)

TABLE 40 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY DISPERSANT TYPE, 2023–2028 (TON)

TABLE 41 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY FILLER MATERIAL, 2019–2022 (USD MILLION)

TABLE 42 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY FILLER MATERIAL, 2023–2028 (USD MILLION)

TABLE 43 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY FILLER MATERIAL, 2019–2022 (TON)

TABLE 44 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY FILLER MATERIAL, 2023–2028 (TON)

TABLE 45 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 46 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 47 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY APPLICATION, 2019–2022 (TON)

TABLE 48 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY APPLICATION, 2023–2028 (TON)

TABLE 49 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END–USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 50 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END–USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 51 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END–USE INDUSTRY, 2019–2022 (TON)

TABLE 52 ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END–USE INDUSTRY, 2023–2028 (TON)

10.2.2 CHINA

10.2.2.1 Largest producer and exporter of consumer electronics globally

TABLE 53 CHINA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END–USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 54 CHINA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END–USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 55 CHINA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END–USE INDUSTRY, 2019–2022 (TON)

TABLE 56 CHINA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END–USE INDUSTRY, 2023–2028 (TON)

10.2.3 JAPAN

10.2.3.1 Nine fully operational nuclear power plants to drive market

TABLE 57 JAPAN: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 58 JAPAN: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 59 JAPAN: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 60 JAPAN: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.2.4 INDIA

10.2.4.1 Rapid industrialization in energy and power generation end-use industries to boost demand

TABLE 61 INDIA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 62 INDIA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 63 INDIA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 64 INDIA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.2.5 SOUTH KOREA

10.2.5.1 Growth of construction industry in industrial and commercial infrastructural development

TABLE 65 SOUTH KOREA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 66 SOUTH KOREA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 67 SOUTH KOREA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 68 SOUTH KOREA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.2.6 REST OF ASIA PACIFIC

TABLE 69 REST OF ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 70 REST OF ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 71 REST OF ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 72 REST OF ASIA PACIFIC: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.3 NORTH AMERICA

10.3.1 RECESSION IMPACT

FIGURE 32 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET SNAPSHOT

TABLE 73 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 74 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 75 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2019–2022 (TON)

TABLE 76 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2023–2028 (TON)

TABLE 77 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2019–2022 (USD MILLION)

TABLE 78 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2023–2028 (USD MILLION)

TABLE 79 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2019–2022 (TON)

TABLE 80 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2023–2028 (TON)

TABLE 81 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2019–2022 (USD MILLION)

TABLE 82 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2023–2028 (USD MILLION)

TABLE 83 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2019–2022 (TON)

TABLE 84 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2023–2028 (TON)

TABLE 85 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 86 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 87 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2019–2022 (TON)

TABLE 88 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2023–2028 (TON)

TABLE 89 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 90 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 91 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 92 NORTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.3.2 US

10.3.2.1 Automotive industry to generate high demand

TABLE 93 US: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 94 US: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 95 US: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END-USE INDUSTRY, 2019–2022 (TON)

TABLE 96 US: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END-USE INDUSTRY, 2023–2028 (TON)

10.3.3 CANADA

10.3.3.1 Manufacturing presence of major automotive companies to drive demand

TABLE 97 CANADA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 98 CANADA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 99 CANADA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 100 CANADA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2023–2028 (TON)

10.3.4 MEXICO

10.3.4.1 Leading manufacturing center for electronics

TABLE 101 MEXICO: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 102 MEXICO: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 103 MEXICO: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 104 MEXICO: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2023–2028 (TON)

10.4 EUROPE

10.4.1 RECESSION IMPACT

FIGURE 33 ELECTRONICS SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD**TABLE 105 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)****TABLE 106 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)****TABLE 107 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2019–2022 (TON)****TABLE 108 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2023–2028 (TON)****TABLE 109 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2019–2022 (USD MILLION)****TABLE 110 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2023–2028 (USD MILLION)****TABLE 111 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2019–2022 (TON)****TABLE 112 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2023–2028 (TON)****TABLE 113 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2019–2022 (USD MILLION)****TABLE 114 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2023–2028 (USD MILLION)****TABLE 115 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2019–2022 (TON)****TABLE 116 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2023–2028 (TON)****TABLE 117 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)****TABLE 118 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)****TABLE 119 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2019–2022 (TON)****TABLE 120 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2023–2028 (TON)****TABLE 121 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (USD MILLION)****TABLE 122 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2023–2028 (USD MILLION)****TABLE 123 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,**

BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 124 EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.4.2 GERMANY

10.4.2.1 Export-driven economy and leading exporter of industrial machinery and automobiles

TABLE 125 GERMANY: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 126 GERMANY: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 127 GERMANY: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 128 GERMANY: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.4.3 FRANCE

10.4.3.1 Introduction of electro-drive vehicles to drive demand

TABLE 129 FRANCE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 130 FRANCE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 131 FRANCE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 132 FRANCE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.4.4 UK

10.4.4.1 Growing demand for home appliances and mobile phones to boost market

TABLE 133 UK: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 134 UK: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 135 UK: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 136 UK: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.4.5 ITALY

10.4.5.1 Commitment to sustainable climate and energy future to drive market

TABLE 137 ITALY: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 138 ITALY: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY

END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 139 ITALY: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END-USE INDUSTRY, 2019–2022 (TON)

TABLE 140 ITALY: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY
END-USE INDUSTRY, 2023–2028 (TON)

10.4.6 SPAIN

10.4.6.1 High demand of thermally conductive filler dispersants for effective heat
dissipation

TABLE 141 SPAIN: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 142 SPAIN: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 143 SPAIN: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 144 SPAIN: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET,
BY END-USE INDUSTRY, 2023–2028 (TON)

10.4.7 REST OF EUROPE

TABLE 145 REST OF EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 146 REST OF EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 147 REST OF EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 148 REST OF EUROPE: THERMALLY CONDUCTIVE FILLER DISPERSANTS
MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.5 MIDDLE EAST & AFRICA

10.5.1 RECESSION IMPACT

TABLE 149 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER
DISPERSANTS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 150 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER
DISPERSANTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 151 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER
DISPERSANTS MARKET, BY COUNTRY, 2019–2022 (TON)

TABLE 152 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER
DISPERSANTS MARKET, BY COUNTRY, 2023–2028 (TON)

TABLE 153 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER
DISPERSANTS MARKET, BY DISPERSANT TYPE, 2019–2022 (USD MILLION)

TABLE 154 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER
DISPERSANTS MARKET, BY DISPERSANT TYPE, 2023–2028 (USD MILLION)

TABLE 155 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2019–2022 (TON)

TABLE 156 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY DISPERSANT TYPE, 2023–2028 (TON)

TABLE 157 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2019–2022 (USD MILLION)

TABLE 158 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2023–2028 (USD MILLION)

TABLE 159 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2019–2022 (TON)

TABLE 160 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY FILLER MATERIAL, 2023–2028 (TON)

TABLE 161 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 162 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 163 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2019–2022 (TON)

TABLE 164 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY APPLICATION, 2023–2028 (TON)

TABLE 165 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 166 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 167 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (TON)

TABLE 168 MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2023–2028 (TON)

10.5.2 SAUDI ARABIA

10.5.2.1 Growth of industrial sector to drive market

TABLE 169 SAUDI ARABIA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 170 SAUDI ARABIA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 171 SAUDI ARABIA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (TON)

TABLE 172 SAUDI ARABIA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2023–2028 (TON)

10.5.3 UAE

10.5.3.1 Focus on energy efficiency and sustainability to drive market

TABLE 173 UAE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 174 UAE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 175 UAE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 176 UAE: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.5.4 SOUTH AFRICA

10.5.4.1 Adoption of advanced technologies and electric vehicles to drive market

TABLE 177 SOUTH AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 178 SOUTH AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 179 SOUTH AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 180 SOUTH AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.5.5 REST OF MIDDLE EAST & AFRICA

TABLE 181 REST OF MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 182 REST OF MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 183 REST OF MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 184 REST OF MIDDLE EAST & AFRICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.6 SOUTH AMERICA

10.6.1 RECESSION IMPACT

TABLE 185 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 186 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 187 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2019–2022 (TON)

TABLE 188 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY COUNTRY, 2023–2028 (TON)

TABLE 189 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY DISPERSANT TYPE, 2019–2022 (USD MILLION)

TABLE 190 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY DISPERSANT TYPE, 2023–2028 (USD MILLION)

TABLE 191 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY DISPERSANT TYPE, 2019–2022 (TON)

TABLE 192 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY DISPERSANT TYPE, 2023–2028 (TON)

TABLE 193 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY FILLER MATERIAL, 2019–2022 (USD MILLION)

TABLE 194 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY FILLER MATERIAL, 2023–2028 (USD MILLION)

TABLE 195 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY FILLER MATERIAL, 2019–2022 (TON)

TABLE 196 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY FILLER MATERIAL, 2023–2028 (TON)

TABLE 197 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 198 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 199 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY APPLICATION, 2019–2022 (TON)

TABLE 200 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY APPLICATION, 2023–2028 (TON)

TABLE 201 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END–USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 202 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END–USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 203 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END–USE INDUSTRY, 2019–2022 (TON)

TABLE 204 SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS

MARKET, BY END–USE INDUSTRY, 2023–2028 (TON)

10.6.2 BRAZIL

10.6.2.1 Growing industrialization to have positive impact on demand

TABLE 205 BRAZIL: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 206 BRAZIL: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 207 BRAZIL: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END–USE INDUSTRY, 2019–2022 (TON)

TABLE 208 BRAZIL: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.6.3 ARGENTINA

10.6.3.1 Flourishing end-use industries to drive market

TABLE 209 ARGENTINA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 210 ARGENTINA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 211 ARGENTINA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 212 ARGENTINA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

10.6.4 REST OF SOUTH AMERICA

TABLE 213 REST OF SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (USD MILLION)

TABLE 214 REST OF SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (USD MILLION)

TABLE 215 REST OF SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2019–2022 (TON)

TABLE 216 REST OF SOUTH AMERICA: THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET, BY END-USE INDUSTRY, 2023–2028 (TON)

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 STRATEGIES ADOPTED BY KEY PLAYERS

FIGURE 34 COMPANIES ADOPTED INVESTMENTS & EXPANSIONS AS KEY GROWTH STRATEGY BETWEEN 2018 AND 2023

11.3 REVENUE ANALYSIS

TABLE 217 REVENUE ANALYSIS OF KEY COMPANIES, 2020–2022

11.4 RANKING OF KEY PLAYERS

FIGURE 35 RANKING OF TOP FIVE PLAYERS IN THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET

11.4.1 THE DOW CHEMICAL COMPANY

11.4.2 HENKEL AG & CO. KGAA

11.4.3 BYK

11.4.4 SHIN-ETSU CHEMICAL CO., LTD.

11.4.5 EVONIK INDUSTRIES

11.5 MARKET SHARE ANALYSIS

FIGURE 36 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET SHARE,
BY COMPANY (2022)

TABLE 218 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET:
INTENSITY OF COMPETITIVE RIVALRY

11.6 COMPANY EVALUATION MATRIX (TIER 1)

11.6.1 STARS

11.6.2 PERVASIVE PLAYERS

11.6.3 EMERGING LEADERS

11.6.4 PARTICIPANTS

FIGURE 37 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET:
COMPANY EVALUATION MATRIX FOR TIER 1 COMPANIES, 2022

11.7 START-UPS AND SMES EVALUATION MATRIX

11.7.1 PROGRESSIVE COMPANIES

11.7.2 RESPONSIVE COMPANIES

11.7.3 STARTING BLOCKS

11.7.4 DYNAMIC COMPANIES

FIGURE 38 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET:
COMPANY EVALUATION MATRIX FOR START-UPS AND SMES, 2022

11.8 COMPETITIVE BENCHMARKING

TABLE 219 DETAILED LIST OF COMPANIES

TABLE 220 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET:
COMPETITIVE BENCHMARKING OF KEY PLAYERS, BY DISPERSANT
STRUCTURE

TABLE 221 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET:
COMPETITIVE BENCHMARKING OF KEY PLAYERS, BY FILLER MATERIAL

TABLE 222 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET:
COMPETITIVE BENCHMARKING OF KEY PLAYERS, BY END-USE INDUSTRY

TABLE 223 THERMALLY CONDUCTIVE FILLER DISPERSANTS MARKET:
COMPETITIVE BENCHMARKING OF KEY PLAYERS, BY REGION

11.9 COMPETITIVE SITUATIONS AND TRENDS

11.9.1 PRODUCT LAUNCHES/DEVELOPMENTS

TABLE 224 PRODUCT LAUNCHES/DEVELOPMENTS, 2018–2023

11.9.2 DEALS

TABLE 225 DEALS, 2018–2023

11.9.3 OTHERS

TABLE 226 OTHERS, 2018–2023

12 COMPANY PROFILES

12.1 KEY PLAYERS

(Business overview, Products/Solutions/Services offered, Recent developments, Product launches, MnM view, Key strengths, Strategic choices, and Weaknesses and competitive threats)*

12.1.1 BYK

TABLE 227 BYK: COMPANY OVERVIEW

FIGURE 39 BYK: COMPANY SNAPSHOT

TABLE 228 BYK: PRODUCT OFFERINGS

TABLE 229 BYK: PRODUCT LAUNCHES

TABLE 230 BYK: OTHER DEVELOPMENTS

12.1.2 THE DOW CHEMICAL COMPANY

TABLE 231 THE DOW CHEMICAL COMPANY: COMPANY OVERVIEW

FIGURE 40 THE DOW CHEMICAL COMPANY: COMPANY SNAPSHOT

TABLE 232 THE DOW CHEMICAL COMPANY: PRODUCT OFFERINGS

TABLE 233 THE DOW CHEMICAL COMPANY: PRODUCT LAUNCHES

TABLE 234 THE DOW CHEMICAL COMPANY: OTHER DEVELOPMENTS

12.1.3 SHIN-ETSU CHEMICAL CO., LTD.

TABLE 235 SHIN-ETSU CHEMICAL CO., LTD.: COMPANY OVERVIEW

FIGURE 41 SHIN-ETSU CHEMICAL CO., LTD.: COMPANY SNAPSHOT

TABLE 236 SHIN-ETSU CHEMICAL CO., LTD.: PRODUCT OFFERINGS

TABLE 237 SHIN-ETSU CHEMICAL CO., LTD.: PRODUCT LAUNCHES

TABLE 238 SHIN-ETSU CHEMICAL CO., LTD.: OTHER DEVELOPMENTS

12.1.4 HENKEL AG & CO. KGAA

TABLE 239 HENKEL AG & CO. KGAA: COMPANY OVERVIEW

FIGURE 42 HENKEL AG & CO. KGAA: COMPANY SNAPSHOT

TABLE 240 HENKEL AG & CO. KGAA: PRODUCT OFFERINGS

TABLE 241 HENKEL AG & CO. KGAA: PRODUCT LAUNCHES

TABLE 242 HENKEL AG & CO. KGAA: DEALS

12.1.5 MOMENTIVE PERFORMANCE MATERIALS, INC.

TABLE 243 MOMENTIVE PERFORMANCE MATERIALS, INC.: COMPANY OVERVIEW

TABLE 244 MOMENTIVE PERFORMANCE MATERIALS, INC.: PRODUCT OFFERINGS

TABLE 245 MOMENTIVE PERFORMANCE MATERIALS, INC.: DEALS

TABLE 246 MOMENTIVE PERFORMANCE MATERIALS, INC.: PRODUCT LAUNCHES

TABLE 247 MOMENTIVE PERFORMANCE MATERIALS, INC.: OTHER DEVELOPMENTS

12.1.6 JNC CORPORATION

TABLE 248 JNC CORPORATION: COMPANY OVERVIEW

TABLE 249 JNC CORPORATION: PRODUCT OFFERINGS

TABLE 250 JNC CORPORATION: PRODUCT LAUNCHES

12.1.7 KUSUMOTO CHEMICALS, LTD.

TABLE 251 KUSUMOTO CHEMICALS, LTD.: COMPANY OVERVIEW

TABLE 252 KUSUMOTO CHEMICALS, LTD.: PRODUCT OFFERINGS

TABLE 253 KUSUMOTO CHEMICALS, LTD.: PRODUCT LAUNCHES

TABLE 254 KUSUMOTO CHEMICALS, LTD.: OTHER DEVELOPMENTS

12.1.8 EVONIK INDUSTRIES

TABLE 255 EVONIK INDUSTRIES: COMPANY OVERVIEW

FIGURE 43 EVONIK INDUSTRIES: COMPANY SNAPSHOT

TABLE 256 EVONIK INDUSTRIES: PRODUCT OFFERINGS

TABLE 257 EVONIK INDUSTRIES: DEALS

TABLE 258 EVONIK INDUSTRIES: OTHER DEVELOPMENTS

12.1.9 CRODA INTERNATIONAL

TABLE 259 CRODA INTERNATIONAL: COMPANY OVERVIEW

FIGURE 44 CRODA INTERNATIONAL: COMPANY SNAPSHOT

TABLE 260 CRODA INTERNATIONAL: PRODUCT OFFERINGS

12.1.10 THE LUBRIZOL CORPORATION

TABLE 261 THE LUBRIZOL CORPORATION: COMPANY OVERVIEW

TABLE 262 THE LUBRIZOL CORPORATION: PRODUCT OFFERINGS

TABLE 263 THE LUBRIZOL CORPORATION: PRODUCT LAUNCHES

TABLE 264 THE LUBRIZOL CORPORATION: OTHER DEVELOPMENTS

12.1.11 WACKER CHEMIE AG

TABLE 265 WACKER CHEMIE AG: COMPANY OVERVIEW

FIGURE 45 WACKER CHEMIE AG: COMPANY SNAPSHOT

TABLE 266 WACKER CHEMIE AG: PRODUCT OFFERINGS

TABLE 267 WACKER CHEMIE AG: DEALS

TABLE 268 WACKER CHEMIE AG: OTHER DEVELOPMENTS

12.2 OTHER PLAYERS

12.2.1 3M

TABLE 269 3M: COMPANY OVERVIEW

12.2.2 PARKER HANNIFIN CORP. (LORD CORPORATION)

TABLE 270 PARKER HANNIFIN CORP. (LORD CORPORATION): COMPANY OVERVIEW

12.2.3 DUPONT (LAIRD TECHNOLOGIES, INC.)

TABLE 271 DUPONT (LAIRD TECHNOLOGIES, INC.): COMPANY OVERVIEW

12.2.4 H.B. FULLER COMPANY

TABLE 272 H.B. FULLER COMPANY: COMPANY OVERVIEW

12.2.5 SANYO CHEMICAL INDUSTRIES, LTD.

TABLE 273 SANYO CHEMICAL INDUSTRIES, LTD.: COMPANY OVERVIEW

12.2.6 FUJIPOLY AMERICA CORPORATION

TABLE 274 FUJIPOLY AMERICA CORPORATION: COMPANY OVERVIEW

12.2.7 MASTER BOND INC.

TABLE 275 MASTER BOND INC.: COMPANY OVERVIEW

12.2.8 ELECTROLUBE

TABLE 276 ELECTROLUBE: COMPANY OVERVIEW

12.2.9 WAKEFIELD THERMAL, INC.

TABLE 277 WAKEFIELD THERMAL, INC.: COMPANY OVERVIEW

12.2.10 INDIUM CORPORATION

TABLE 278 INDIUM CORPORATION: COMPANY OVERVIEW

12.2.11 BYOD

TABLE 279 BYOD: COMPANY OVERVIEW

12.2.12 AOS THERMAL COMPOUNDS LLC

TABLE 280 AOS THERMAL COMPOUNDS LLC: COMPANY OVERVIEW

12.2.13 EPOXY TECHNOLOGY, INC.

TABLE 281 EPOXY TECHNOLOGY, INC.: COMPANY OVERVIEW

12.2.14 GELEST INC.

TABLE 282 GELEST INC.: COMPANY OVERVIEW

*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.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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