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Global Low-loss Materials for 5G Production, Demand and Key Producers, 2022-2028

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Abstracts

The most revolutionary aspect of 5G network relies on the high frequency 5G technologies, i.e. mmWave 5G, which utilize spectrum from 26 GHz up to 40 GHz. At such high frequency, many technologies and devices are facing challenges. The high-frequency signals result in significant transmission loss, require higher power and more efficient power supply, and generate more heat. The transmission loss is a pain point for the antenna design and radio frequency (RF) integrated circuits (ICs) for 5G applications. For low-frequency 5G, i.e. sub-6 GHz 5G, due to the high data transfer speed, reducing signal loss is also desirable. With the future rise of mmWave 5G, low-loss materials will foresee a rapid growth and play an increasingly important role. In this report, we survey the landscape of the low-loss materials and benchmark their performance by five key factors, i.e. dielectric constant (Dk), dissipation factor (Df), moisture absorption, cost, and manufacturability. The scope for the report is shown in figure 2. Low-loss materials will not only be used as substrate or PCB board, but also for advanced packages. One of the strong trends is antenna in package (AiP); as we go higher in frequency towards mmWave, the size of the antenna elements will shrink and the arrays can be fitted into the package itself. This integration will also help shorten the RF paths, and thus minimize the transmission losses. AiP will need low-loss materials for the substrates (redistribution layers as well), electromagnetic interference (EMI) shielding, molded underfill (MUF) materials and more.

This report studies the global Low-loss Materials for 5G production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-loss Materials for 5G, and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2021 as the base year. This report explores demand trends and

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competition, as well as details the characteristics of Low-loss Materials for 5G that contribute to its increasing demand across many markets.

The global Low-loss Materials for 5G market size is expected to reach $ million by 2028, rising at a market growth of % CAGR during the forecast period (2022-2028).

Highlights and key features of the study

Global Low-loss Materials for 5G total production and demand, 2017-2028, (Ton)

Global Low-loss Materials for 5G total production value, 2017-2028, (USD Million)

Global Low-loss Materials for 5G production by region & country, production, value, CAGR, 2017-2028, (USD Million) & (Ton)

Global Low-loss Materials for 5G consumption by region & country, CAGR, 2017-2028 & (Ton)

U.S. VS China: Low-loss Materials for 5G domestic production, consumption, key domestic manufacturers and share

Global Low-loss Materials for 5G production by manufacturer, production, price, value and market share 2017-2022, (USD Million) & (Ton)

Global Low-loss Materials for 5G production by Type, production, value, CAGR, 2017-2028, (USD Million) & (Ton)

Global Low-loss Materials for 5G production by Application production, value, CAGR, 2017-2028, (USD Million) & (Ton)

This reports profiles key players in the global Low-loss Materials for 5G market based on the following parameters – headquarters, production locations, products portfolio, Low-loss Materials for 5G revenue, sales, average price and gross margin, recent developments.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices

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used in analyzing the World Low-loss Materials for 5G market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Ton) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2017-2028 by year with 2021 as the base year, 2022 as the estimate year, and 2028 as the forecast year.

Global Low-loss Materials for 5G Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Global Low-loss Materials for 5G Market, Segmentation by Type

Sub-6 GHz 5G

mmWave 5G

Global Low-loss Materials for 5G Market, Segmentation by Application

Smart Products

Infrastructure

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Customer Premise Equipment (CPE)

Companies Profiled:

DuPont

Sartomer (Arkema)

AGC Chemicals

Toray Industries

Mitsubishi Gas Chemicals

JSR Corp

Hitachi Chemicals

SABIC

Solvay

Kyocera

Sumitomo Bakelite

Key Questions Answered

1. How big is the global Low-loss Materials for 5G market?

2. What is the demand of the global Low-loss Materials for 5G market?

3. What is the year over year growth of the global Low-loss Materials for 5G market?

4. What is the production and production value of the global Low-loss Materials for 5G market?

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5. Who are the key producers in the global Low-loss Materials for 5G market?

6. What are the growth factors driving the market demand?

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