

Bragg Fiber Market, Global Outlook and Forecast 2022-2028

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Abstracts

Bragg fiber is a subset of photonic bandgap fibers, has a solid or hollow core surrounded by periodic dielectric nanolayers with low and high reflective indexes. Because of optical interference in their microstructure, the Bragg fibers are colorful under ambient illumination. However, no colorants or dyes are used in preparation of such fibers and therefore these fibers are not susceptible to color fading. Moreover, due to photonic band gap effect, Bragg fibers guide the light in the lower reflective index core and uniformly emit a portion of guided color without any requirement of mechanical perturbations. Therefore, these fibers are mechanically superior to the other light emitting fibers. By varying the number of layers in the Bragg reflector, the intensity of side emission can be controlled. On the other hand, the overall color of Bragg fiber can be varied by controlling the relative intensities of ambient light and guided light, which enable passive color change in textiles. Furthermore, with stretching of PBG Bragg fibers, the reflected colors also change proportionally to the extent of stretching.

This report contains market size and forecasts of Bragg Fiber in global, including the following market information:

Global Bragg Fiber Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Bragg Fiber Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Bragg Fiber companies in 2021 (%)

The global Bragg Fiber market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Hollow Core Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Bragg Fiber include NKT Photonics, iXblue and Thorlabs, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Bragg Fiber manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Bragg Fiber Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Bragg Fiber Market Segment Percentages, by Type, 2021 (%)

Hollow Core

Solid Core

Global Bragg Fiber Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Bragg Fiber Market Segment Percentages, by Application, 2021 (%)

Sensing

Imaging

Ultrashort Pulse Applications

Others

Global Bragg Fiber Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions)
& (K Units)

Global Bragg Fiber Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Bragg Fiber revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Bragg Fiber revenues share in global market, 2021 (%)

Key companies Bragg Fiber sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Bragg Fiber sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

NKT Photonics

iXblue

Thorlabs

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