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Glass Scintillator Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Product (Natural Lithium, Enriched Lithium, and Depleted Lithium), By Type (?400nm and ?400nm), By Application (Oil & Gas and Nuclear Power Plant), By Region

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Abstracts

Global Glass Scintillator Market is expected to register a rapid CAGR during the forecast period. The increasing demand from sectors like nuclear power plants and oil & gas is a major driver of the global glass scintillator market. The past occurrences of nuclear disaster, such as the nuclear accident at Fukushima Daiichi, have sparked concerns about the safety of working conditions in the nuclear industry and increased awareness of the security of those who work in the sector. Glass scintillators are utilized in detectors as they assist in tracking nuclear reactor energy radiation. Therefore, a significant increase in the nuclear industry's demand for glass scintillators is anticipated to spur market expansion during the anticipated time frame.

Increased safety requirements in nuclear power plants

The increasing awareness about the potential hazards of radioactive materials released by nuclear power plants while generating electricity is expected to boost the demand for radiation detectors over the forecast period. The harmful effects caused due to radiation can be avoided with the help of detection equipment. Glass scintillation detection materials are expected to have a higher light output, reduced decay times, improved energy resolution, and better linearity. Materials such as lithium based glass scintillators are used extensively owing to their superior abilities and availability. This has resulted in increasing the penetration of these materials in various radiation detection devices. The

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medical imaging sector has also witnessed an increasing trend of using radiation detection materials owing to their superior properties. Emerging economies including India and China are improving their safety and security systems at nuclear power plants by installing radiation detection systems. The emerging markets are expected to be the high potential markets over the overcast period.

Requirement of highly skilled labor

The rising number of nuclear power plants coupled with growth in the demand for energy is anticipated to expand the need for skilled workers over the forecast period. The industry has voiced concerns about the ongoing and proposed quantum of construction and maintenance activities, in the nuclear industry. The existing skill base is insufficient to address the growing needs of nuclear industry. The concerns over the reduced skilled workforce across different geographies has provoked the government to plan for bringing up a huge workforce of highly specialist workers. Additional funding required by the industry to address the problem of the skilled and expert workforce is another problem, which builds up for concerns over the issue during the forecast period. The largely unaddressed skill shortage for operations of glass scintillators especially in the nuclear industry is creating a void, which is a significant concern for the industry growth. The nuclear power plant requires approximately 5,000 skilled workers for installation, operations and maintenance phases accounted cumulatively. The specialist workforce problem remains largely unaddressed due to clarifications needed regarding the future development of nuclear industry. The guidelines required to recruit the type and volume of staff required are unclear, resulting in a scarcity of effective training programmes for glass scintillator operators in the industry..

Market Segmentation

Global Glass Scintillator Market can be segmented into product, type, application, region and competitive landscape. Based on Product, the market is segmented into Natural Lithium, Enriched Lithium, and Depleted Lithium. Based on Type, the market is segmented into ?400nm and ?400nm. By Application the market is segmented into Oil & Gas and Nuclear Power Plant.

Market Players

Major players in the Global Glass Scintillator Market are Rexon Components & TLD Systems Inc., Saint-Gobain Ceramics & Plastics, Inc., Nihon Kessho Kogaku Ltd., Hitachi Metals Ltd., Hamamatsu Photonics, Epic Crystal Co. Ltd., Dynasil Corporation,

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Food Machinery Corporation (FMC) Ltd., Albemarle Corporation, and Panasonic Corporation.

Report Scope:

In this report, the Global Glass Scintillator Market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Glass Scintillator Market, By Product:

Natural Lithium

Enriched Lithium

Depleted Lithium

Glass Scintillator Market, By Type:

> 400 nm

Glass Scintillator Market, By Application:

Oil & Gas

Nuclear Power Plant

Glass Scintillator Market, By Region:

North America

United States

Mexico

Canada

Asia-Pacific

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- China
- Japan
- South Korea
- Australia
- Singapore
- Malaysia

Europe

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- United Kingdom
- France
- Italy
- Spain
- Poland
- Denmark

South America

- Brazil
- Argentina
- Colombia
- Peru

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Chile

Middle East & Africa

Saudi Arabia

South Africa

UAE

Iraq

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Glass Scintillator Market.

Available Customizations:

Global Glass Scintillator Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to 15).

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