

Scintillator Market by Composition of Material, Application (Healthcare, Homeland security, Industrial application, Nuclear Power Plants, and others), End Product (Personal Instrument, Hand-Held Instruments, Fixed, and Installed Instruments) & Geography - Global Forecast and Analysis to 2013 – 2020

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Abstracts

Scintillators are luminescent materials, which re-emit part of the absorbed energy in the form of light. The emission can be of different types: fluorescence (prompt), delayed fluorescence and phosphorescence (delayed with different wavelength). The radiation detection and monitoring has witnessed various technological advancements in recent years. This advancement has led to the rise in the market for the various applications such as nuclear power plants, homeland security, medical, healthcare, and industrial inspections that have been discussed in this report. These applications require scintillation detectors to measure the radiation. Among these applications, homeland security, healthcare, and nuclear power plants are the top-rated applications for the scintillator market. The major drivers for scintillator development with regards to the various applications are high resolution, cost, and size that lead to new scintillator production.

The segmentation based on the products consists of sample counters, survey meters, area monitor, and portal monitor, among others. The future growth and development of these product segments with respect to scintillators is described in this report. The two basic types of scintillator materials, namely organic as well as inorganic, along with their various states and composition such as liquid, plastics, crystals, and gaseous are also well described in this report. The various future opportunities and developments in this market featuring the future demand for scintillators are highlighted with respect to the

current market scenario.

The report covers major regions such as Americas, Europe, APAC, and Rest of the World (ROW). Among all these regions, Americas is estimated to hold the major share owing to the growing security concerns and increasing number of nuclear power plants in this region; as the U.S. accounted for over 30% of the nuclear electricity generation across the globe. However, in near future, it is expected that the APAC market will grow at a significant rate due to the nuclear power developments and security reasons which will boost the market for inorganic scintillators.

Some of the major players in the scintillator market include Canberra Industries Inc. (U.S.), Hamamatsu Photonics K.K. (Japan), Hitachi Metals Ltd. (Japan), Ludlum Measurements Inc. (U.S.), Mirion Technologies Inc. (U.S.), Radiation Monitoring Devices (U.S.), Saint Gobain (France), and Zecotek Photonics (Canada), among others.

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