Fire, Smoke, And Toxicity Retardant Composite Resin Market - By Type (Phenolic, Polyester, Epoxy, Thermoplastic, Vinylester); By Manufacturing Process; By Industry Forecast 2016 - 2021.

Description: A FST composite resin is a substance that reduces the spread of fire, smoke, toxic gases or delays their entry into sensitive areas. This includes chemical agents, but may also include substances that work by physical action, such as cooling the fuels, such as fire-fighting foams and fire-retardant gels. One or more materials are mixed to get the desired properties for the material hence they are called composite resins. According to their usage they are made of different materials using various processes. In order to avoid heavy destruction, resins are used in all places. Especially, in chemical laboratories, nuclear fields, they are very essential. Transportation, Aerospace & defense industries are driving the market. As they are available in different types, these are widely used in all sectors.

Lay-up process: The leading composite manufacturing process for FST composite resin

The lay-up process includes hand lay-up and spray-up process and is the leading manufacturing process for FST composite resin in terms of value, owing to the developed aerospace & defense industry and recovery of the marine industry globally. This process is applicable for designing simple enclosures, lightly loaded structural panels because it provides orientation of the fibers that be controlled as needed so that they can absorb maximum stresses to which they are subjected. This gives the exceptional properties to the resin, which are essential in many sectors, increasing the demand for FST.

Increase in the demand for FST composite resin from the transportation industry

The demand for lightweight transportation parts has given an edge to composite resin due to its improved properties and reduced curing time. The increased use of composite components in the interior application of high speed, monorail, metro, trams, intercity, commuter rails and so on are driving the growth of the FST composite resin market. The use of FST composite resin in interior components of rail, automotive, and other heavy vehicles, not only leads to the production of lightweight vehicles, improved engine efficiency, reduction in CO2 emissions, and superior performance, but also enable the vehicle manufacturers to meet public safety norms.

The global market for FST Composite Resin was estimated to be $XX billion in 2014. The global market for FST Composite Resin market is estimated to grow at a CAGR of xx% and is forecast to reach $XX billion by 2021. The Power Inductors are forecast to have the highest growth of XX% during the forecast period 2015-2020. Power transmission, automotive and Tele communication are the major end-users for Inductors. North America and Asia alone are estimated to occupy a share of more than xx% during 2015-2021.

North America is the key region for FST composite resin market

North America is the fastest-growing market for FST composite resin, in terms of value and volume. High economic growth rate, growing manufacturing industries, and new product developments by various leading players are few factors leading to the growth of the market for FST composite resin in this region. The U.S. dominates the market for FST composite resin in North America. Stringent safety regulations in this region especially in the U.S. drive the FST composite resin market in the transportation and aerospace & defense applications. Also, the demand for FST composite resin in aerospace & defense is high owing to the presence of largest aircraft manufacturer Boeing in the country.

Contents:
1. Market Overview
2. Executive Summary
3. FST Composite Resin Market Landscape
   3.1. Market Share Analysis
   3.2. Comparative Analysis
      3.2.1. Product Benchmarking
      3.2.2. End User Profiling
      3.2.3. Top 5 Financials Analysis
4. Fst Composite Resin Market-Forces
   4.1. Market Drivers
   4.2. Market Constraints & Challenges
     4.2.1. Power Of Suppliers
     4.2.2. Threats From New Entrants
     4.2.3. Power Of Buyer
     4.2.4. Threat From Substitute Product
     4.2.5. Degree Of Competition
5. Fst Composite Resin Market-Strategic Analysis
   5.1. Fst Composite Resin Market - Value Chain Analysis
   5.2. Pricing Analysis
   5.3. Opportunity Analysis
   5.4. Product Life Cycle
   5.5. Suppliers And Distributors
   5.6. Swot Analysis
6. Fst Composite Resin Market By Resin Type
   6.1. Introduction
   6.2. Phenolic
   6.3. Polyester
   6.4. Epoxy
   6.5. Thermoplastic
   6.6. Vinyl Ester
   6.7. Others
7. Fst Composite Resin Market By Manufacturing Process
   7.1. Lay-Up
   7.2. Filament Winding
   7.3. Injection Molding
   7.4. Pultrusion
   7.5. Compression Molding
   7.6. Others
8. Fst Composite Resin Market-By Industry
   8.1. Electronics
   8.2. Telecommunications
   8.3. Health Care
   8.4. Aerospace & Defence
   8.5. Building And Construction
   8.6. Automotive
   8.7. Marine
   8.8. Chemical
   8.9. Nuclear
   8.10. Transportation
   8.11. Others
9. Fst Composite Resin Market-By Geography
   9.1. Americas
     9.1.1. U.S.
     9.1.2. Canada
     9.1.3. Mexico
     9.1.4. Brazil
     9.1.5. Rest Of America
   9.2. Europe
     9.2.1. U.K.
     9.2.2. Germany
     9.2.3. Italy
     9.2.4. France
     9.2.5. Rest Of Europe
   9.3. Asia
     9.3.1. China
     9.3.2. South Korea
     9.3.3. Japan
     9.3.4. India
     9.3.5. Rest Of Apac
   9.4. Rest Of The World (Row)
     9.4.1. Middle East
10. Fst Composite Resin Market Entropy
11. Company Profiles
11.1. Permali Gloucester Ltd.
11.2. U.S. Composites, Inc.
11.3. Reichhold Llc
11.4. Hexion Inc.
11.5. Unishield International, Llc
11.6. Msm Industries, Inc.
11.7. Taiwan U-Pellet Co., Ltd.
11.8. Basf Se
11.9. Turning Star Inc.
11.10. Synerburg Material Co. Ltd.

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