

Impregnating Resins Market Report by Type (Phenol Formaldehyde, Urea Formaldehyde, Melamine Formaldehyde), Form (Solventless, Solvent-based, and Others), Application (Motors and Generators, Home Appliances, Transformer, Automotive Components, and Others), and Region 2024-2032

<https://marketpublishers.com/r/IED82A731048EN.html>

Date: July 2024

Pages: 138

Price: US\$ 3,899.00 (Single User License)

ID: IED82A731048EN

Abstracts

The global impregnating resins market size reached US\$ 2.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 3.3 Billion by 2032, exhibiting a growth rate (CAGR) of 5.59% during 2024-2032.

Impregnating resins, also known as secondary insulation materials, refer to organic liquid resins diluted with reactive thinners. They contain formaldehyde and are composed of dimers and trimers of the main molecule. They are thick and viscous that are used in the forest products industry for wood modification. Impregnating resins are also used in electric motors, filament winding, generators, home appliances, electrical components, and transformers. They exhibit electrical insulation, protection from climate changes, and mechanical stability. They provide resin protection and enhance heat transfer among iron cores, slot insulations, and wires winding.

Impregnating Resins Market Trends:

The significant growth in the automotive industry across the globe is creating a positive outlook for the market. Impregnating resins are widely used to impregnate starters, electric motors, and alternators in conventional vehicles and electric vehicles (EVs). In line with this, the implementation of various government initiatives to accelerate decarbonization and reduce greenhouse gas (GHG) emissions are favoring the market growth. Additionally, the widespread product adoption for producing transformers,

generators, and motors, and impregnating varnishes and wire enamels is acting as another growth-inducing factor. Apart from this, the introduction of water-based impregnation resins that are designed to be more environmentally friendly than conventional products is providing an impetus to the market growth. Moreover, the increasing demand for electrical and electronic components is facilitating the market growth. Resin impregnation of windings and copper wires prevents vibration, provides better insulation, increases heat exchange during regular operation, is resistant to stresses and temperature loads, and reduces the risk of short circuits in the windings, which, in turn, is augmenting the market growth. Other factors, including the widespread utilization of solvent-less impregnating resins, extensive research and development (R&D) activities, and the launch of advanced impregnating resins that makes the motor more protective and provides high mechanical stability, are anticipated to drive the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global impregnating resins market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on type, form and application.

Breakup by Type:

- Phenol Formaldehyde
- Urea Formaldehyde
- Melamine Formaldehyde

Breakup by Form:

- Solventless
- Solvent-based
- Others

Breakup by Application:

- Motors and Generators
- Home Appliances
- Transformer
- Automotive Components
- Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Aev Asia Sdn. Bhd., Axalta Coating Systems Ltd., BASF SE, Bodo M?ller Chemie GmbH, Elantas Pdg Inc. (Altana AG), Huntsman International LLC (Huntsman Corporation), Robnor ResinLab Ltd., Showa Denko Materials Co. Ltd, Von Roll Holding AG and Wacker Chemie AG.

Key Questions Answered in This Report:

How has the global impregnating resins market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global impregnating resins market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the form?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global impregnating resins market and who are the key players?

What is the degree of competition in the industry?

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