

Global Epoxy-coated Hydrophilic Aluminium Foil Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Epoxy-coated Hydrophilic Aluminium Foil market size was valued at US\$ 159 million in 2025 and is forecast to a readjusted size of US\$ 207 million by 2032 with a CAGR of 3.9% during review period.

Epoxy-coated Hydrophilic Aluminium Foil is a functional composite material engineered by applying a hydrophilic epoxy-based coating onto aluminum foil to improve water wettability, corrosion resistance, and thermal exchange efficiency, making it suitable for heat exchanger fin applications in HVAC and refrigeration systems. In 2025, the production of Epoxy-coated Hydrophilic Aluminium Foil was 18 million square meters with an average price of 8.6 USD per square meter. In 2025, the capacity utilization rate was about 70%, and the average gross margin was approximately 13%. The upstream primarily comprises primary aluminum ingots and rolling mills, with representative suppliers including Alcoa, Norsk Hydro, UC Rusal and Aluminum Corporation of China, and major equipment suppliers such as Danieli and SMS Group. The midstream involves hot rolling, surface degreasing and cleaning, hydrophilic epoxy coating application, curing, and performance testing, with a focus on coating uniformity, adhesion stability, and hydrophilicity control. The downstream customers are manufacturers of residential air conditioners, automotive air conditioning and commercial HVAC systems, represented by companies such as Carrier, Daikin, Toyota, Midea and Gree.

Epoxy-coated Hydrophilic Aluminium Foil demand is closely tied to the expansion of HVAC systems, automotive thermal management, and energy-efficient refrigeration technologies. Its functional coating improves heat exchange efficiency and condensate

drainage performance, making it critical in high-efficiency air conditioning and heat exchanger designs. Growth is driven by stricter energy efficiency standards and the ongoing replacement of conventional fin materials in residential and commercial HVAC equipment. However, adoption is influenced by coating process consistency, cost sensitivity, and long-term durability requirements under varying humidity conditions. Future development will depend on performance optimization, environmental compliance of coating materials, and integration with next-generation thermal management systems.

This report is a detailed and comprehensive analysis for global Epoxy-coated Hydrophilic Aluminium Foil market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Epoxy-coated Hydrophilic Aluminium Foil market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Epoxy-coated Hydrophilic Aluminium Foil market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Epoxy-coated Hydrophilic Aluminium Foil market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Epoxy-coated Hydrophilic Aluminium Foil market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Epoxy-coated Hydrophilic Aluminium Foil

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Epoxy-coated Hydrophilic Aluminium Foil market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dingsheng New Materials (China), Jiangsu Alcha Aluminium Group (China), Henan Mingtai Al. Industrial (China), Shantou Wanshun New Material Group (China), Chalco Aluminum (China), Guangdong Hec Technology (China), UACJ (Japan), Shandong Nanshan Aluminum (China), Shanghai Huafo Aluminum Corporation (China), Novelis (USA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Epoxy-coated Hydrophilic Aluminium Foil market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

8011

1100

1200

3102

Others

Market segment by Thickness

Thickness

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