

Global Solid Particle Deicer Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Solid Particle Deicer market size was valued at US\$ 642 million in 2024 and is forecast to a readjusted size of USD 776 million by 2031 with a CAGR of 2.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Solid deicers are granules that vary in size, shape, coarseness, and chemical or mineral composition. They contain freeze point depressants that lower the freezing point of water. Deicers are applied to walkways and roads to penetrate ice and snow, form brine, and melt ice that has already bonded with the pavement.

The development trend of solid de-icers is being driven by stricter environmental regulations, frequent extreme weather in winter, upgraded infrastructure maintenance needs, and breakthroughs in new material technologies. Traditional chloride-based (such as sodium chloride, calcium chloride) solid de-icers are facing replacement pressure due to their corrosiveness to roads, vehicles and the environment, driving the market to transform to environmentally friendly products, such as low-corrosive organic salts such as potassium acetate (KAc) and sodium formate (NaFo), as well as compound formulas with added corrosion inhibitors or biodegradable ingredients. The increase in extreme snowfall events (such as North America, Northern Europe and high-latitude areas in Asia) has stimulated the demand for emergency reserves of de-icers on airport runways, highways and urban roads, while emerging application scenarios such as high-speed rail tracks and wind turbine blades have further expanded the

market space. In the future, solid de-icers will develop in the direction of high efficiency and low carbon, precise controlled release and multifunctional integration (such as ice melting + antifreeze + road protection), but cost pressure (high prices of environmentally friendly materials) and long-term performance verification are still bottlenecks for popularization.

This report is a detailed and comprehensive analysis for global Solid Particle Deicer 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 Solid Particle Deicer market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Solid Particle Deicer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Solid Particle Deicer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Solid Particle Deicer market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

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 Solid Particle Deicer
- 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 Solid Particle Deicer 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 Compass Minerals, Cargill, Kissner, Green Earth Deicer, General Atomics, OxyChem, Ossian, Blank Industries, BCA Products, Xynyth, etc.

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

Market Segmentation

Solid Particle Deicer market is split by Type and by Application. For the period 2020-2031, 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

Sodium Formate

Calcium Chloride

Potassium Acetate

Others

Market segment by Application

Highway

Airport

Port

Home

Others

Major players covered

Compass Minerals

Cargill

Kissner

Green Earth Deicer

General Atomics

OxyChem

Ossian

Blank Industries

BCA Products

Xynnyth

Alaskan

Windsor Salt

AgSalt Processing

Seneca Mineral

CryoTech

Innovative

Fisher Darville

Kasco Marine

Nouryon

Clariant

Safecote

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solid Particle Deicer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solid Particle Deicer, with price, sales quantity, revenue, and global market share of Solid Particle Deicer from 2020 to 2025.

Chapter 3, the Solid Particle Deicer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solid Particle Deicer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Solid Particle Deicer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solid Particle Deicer.

Chapter 14 and 15, to describe Solid Particle Deicer sales channel, distributors, customers, research findings and conclusion.

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