

Potassium Silicofluoride (CAS 16871-90-2) Market Research Report 2025

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Abstracts

Potassium Silicofluoride (CAS 16871-90-2) Market Research Report 2025 presents comprehensive data on Potassium Silicofluoride markets globally and regionally (Europe, Asia, North America etc.)

The report includes Potassium Silicofluoride description, covers its application areas and related patterns. It overviews Potassium Silicofluoride market, names Potassium Silicofluoride producers and indicates its suppliers.

Besides, the report provides Potassium Silicofluoride prices in regional markets.

In addition to the above the report determines Potassium Silicofluoride consumers in the market.

BAC Reports offers its clients in-depth market research of chemical industry products on the global and regional markets (North & Latin America, Asia Pacific, European Union, Russia and CIS).

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capacities and production

consumption volume and structure

market price trends

exports and imports

existing technologies

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market news digest

market forecast.

Potassium Silicofluoride (CAS 16871-90-2) Market Research Report 2025 can feature:

market condition and estimations, market forecast

chemical product ranges, trademarks, analogous products, application areas

regional and global producers, consumers and traders (including contact details).

Contents

1. POTASSIUM SILICOFLUORIDE (CAS 16871-90-2)

- 1.1. General information, synonyms
- 1.2. Composition, chemical structure
- 1.3. Safety information
- 1.4. Hazards identification
- 1.5. Handling and storage
- 1.6. Toxicological & ecological information
- 1.7. Transport information

2. POTASSIUM SILICOFLUORIDE APPLICATIONS

- 2.1. Potassium Silicofluoride application spheres, downstream products

3. POTASSIUM SILICOFLUORIDE MANUFACTURING METHODS

4. POTASSIUM SILICOFLUORIDE PATENTS

- Abstract
- Description
- Summary of the invention
- Detailed description of the invention

5. POTASSIUM SILICOFLUORIDE MARKET WORLDWIDE

- 5.1. General Potassium Silicofluoride market situation, trends
- 5.2. Manufacturers of Potassium Silicofluoride
 - Europe
 - Asia
 - North America
 - Other regions
- 5.3. Potassium Silicofluoride suppliers (importers, local distributors)
 - Europe
 - Asia
 - North America
 - Other regions

5.4. Potassium Silicofluoride market forecast

6. POTASSIUM SILICOFLUORIDE MARKET PRICES

6.1. Potassium Silicofluoride prices in Europe

6.2. Potassium Silicofluoride prices in Asia

6.3. Potassium Silicofluoride prices in North America

6.4. Potassium Silicofluoride prices in other regions

7. POTASSIUM SILICOFLUORIDE END-USE SECTOR

7.1. Potassium Silicofluoride market by application sphere

7.2. Potassium Silicofluoride downstream markets trends and prospects

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About

Product Name: Potassium Silicofluoride

Synonyms:

Potassium Fluorosilicate

Potassium Hexafluorosilicate

Potassium Fluosilicate

Potassium fluosilicate

Potassium hexafluorosilicate

Potassium silicofluoride

CAS#: 16871-90-2

Formula: F_6K_2Si

Molecular Weight: 220.27

Potassium fluorosilicate (dipotassium hexafluorosilicon(2-)) is a dry, white, free-flowing, crystalline powder with the formula F_6K_2Si . It is almost insoluble in water, aqueous ammonia and ethanol; but soluble in hydrochloric acid. Potassium fluorosilicate is decomposed by heat to potassium fluoride (KF) and silicon tetrafluoride (SiF_4), and hydrolyzed in hot water to potassium fluoride, hydrogen fluoride (HF) and silicic acid (H_2SiO_3). This chemical is highly toxic, may be fatal if inhaled, swallowed or absorbed through skin.

Potassium fluorosilicate has weak oxidizing or reducing powers; though Redox reactions can still occur. Most compounds in this class are slightly soluble or insoluble in water. If soluble in water, then the solutions are usually neither strongly acidic nor strongly basic. These compounds are not water-reactive.

Potassium fluorosilicate is widely applied in wood preservation, ceramic and optical glass manufacture, in aluminum and magnesium smelting, in the synthesis of the mica. Potassium fluorosilicate is also used in specialized glasses, ceramics, enamels and as an insecticide.

Patented uses of potassium fluorosilicate include processes for preparing silicon tetrafluoride by the thermal decomposition of an alkali or alkaline earth-metal fluorosilicate in a fluidized bed reactor.

Also, the potassium fluorosilicate, recovered during the reaction of potassium fluoride and silica with an aqueous solution of hydrofluorosilicic acid, may further react with ammonia in water to form an aqueous mixture of ammonium fluoride and potassium fluoride.

Potassium fluorosilicate market is covered in the study Potassium Fluorosilicate (CAS 16871-90-2) Market Research Report 2012. The report encompasses proper description of the product, unveils application areas, and briefly summarizes patents in the sphere. It overlooks potassium fluorosilicate market situation, names manufacturers, suppliers as well as users. The report also provides current potassium fluorosilicate prices in the market.

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