

Global WS₂ (Tungsten di Sulfide) Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global WS₂ (Tungsten di Sulfide) market size is expected to reach \$ 99.6 million by 2029, rising at a market growth of 6.5% CAGR during the forecast period (2023-2029).

Tungsten disulfide (WS₂) is an inorganic compound with the chemical formula WS₂. tungsten disulfide is a gray, metallic, fine hexagonal crystalline or powder. It is stable in air. Insoluble in water, soluble in nitric acid and hydrofluoric acid mixed acid. Soluble in molten alkali, insoluble in alcohol. Ammonium tungstate reacts with hydrogen sulfide gas and precipitates ammonium tetrathionate. The latter is then roasted at high temperature and decomposed into tungsten disulfide.

Tungsten disulfide is a new type of solid lubricant, suitable for lubrication under high temperature, high pressure, high load and high vacuum conditions. It can be added to engineering plastics to make self-lubricating components, or mixed with volatile solvents and sprayed on metal surfaces to improve die life and workpiece finish in stamping and forging.

The global production of tungsten disulfide is mainly distributed in North America, China and Europe, with China holding more than 60% of the market share. In the consumption perspective, Asia Pacific is the largest market with nearly 40% share, followed by North America and Europe with 30% and 24% market share respectively. The global key manufacturers of tungsten disulfide mainly include ALB Materials, Hunan Huajing Powder Materials, Bovas Nano Technology and Lowerfriction Lubricants (M K Impex), with the top three holding about 45% of the market share. Lubricants are the largest downstream field with over 55% market share, while petroleum catalysts and inorganic catalysts are also important applications with a combined share of about 20%.

WS2 is used as friction reducing agents for aerospace and aircraft components. In the injection molding industry, it helps to reduce friction during the molding process. The parts do not stick to the mold and release more quickly. It is also used for chains, end mills, bearings, and gear boxes, among many others.

This report studies the global WS2 (Tungsten di Sulfide) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for WS2 (Tungsten di Sulfide), and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of WS2 (Tungsten di Sulfide) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global WS2 (Tungsten di Sulfide) total production and demand, 2018-2029, (Tons)

Global WS2 (Tungsten di Sulfide) total production value, 2018-2029, (USD Million)

Global WS2 (Tungsten di Sulfide) production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global WS2 (Tungsten di Sulfide) consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: WS2 (Tungsten di Sulfide) domestic production, consumption, key domestic manufacturers and share

Global WS2 (Tungsten di Sulfide) production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global WS2 (Tungsten di Sulfide) production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global WS2 (Tungsten di Sulfide) production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global WS2 (Tungsten di Sulfide) market based

on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ALB Materials, Lowerfriction Lubricants (M K Impex), Edgetech Industries (ETI), Rose Mill, Hunan Huajing Powdery Material, Brofos Nanotechnology, Shanghai Pantian Nano, Ningbo Jinlei Technology and Shanghai Hanlane, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World WS2 (Tungsten di Sulfide) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global WS2 (Tungsten di Sulfide) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global WS2 (Tungsten di Sulfide) Market, Segmentation by Type

Above or Equal to 99.99%

Above or Equal to 99.9%

Below 99.9%

Global WS2 (Tungsten di Sulfide) Market, Segmentation by Application

Lubricant

Petroleum Catalyst

Inorganic Catalyst

Nanocomposite

Electrode Material

Semiconductor Material

Others

Companies Profiled:

ALB Materials

Lowerfriction Lubricants (M K Impex)

Edgetech Industries (ETI)

Rose Mill

Hunan Huajing Powdery Material

Brofos Nanotechnology

Shanghai Pantian Nano

Ningbo Jinlei Technology

Shanghai Hanlane

Zhejiang Yamei Nano Technology

Key Questions Answered

1. How big is the global WS₂ (Tungsten di Sulfide) market?
2. What is the demand of the global WS₂ (Tungsten di Sulfide) market?
3. What is the year over year growth of the global WS₂ (Tungsten di Sulfide) market?
4. What is the production and production value of the global WS₂ (Tungsten di Sulfide) market?
5. Who are the key producers in the global WS₂ (Tungsten di Sulfide) market?
6. What are the growth factors driving the market demand?

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