

Global Colloidal Silica CMP Abrasives Market Growth 2024-2030

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Abstracts

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In the manufacture of the amazing computer 'chips' which have become an integral part of our lives, the first step is to grow large, pure, single crystals of silicon. These single crystals are cut into discs and then polished to a virtually flawless surface. The circuitry laid down on the silicon surface is so miniaturized that even minute scratches are chasms by comparison. The first steps in the polishing process use somewhat standard abrasive polishing methods to smooth the surface and chemical etchants to remove impurities. However, to achieve the final result an abrasive of very small size is needed. Colloidal silica provides such an abrasive.

In semiconductor and light-emitting-diode (LED) production, colloidal silica is a critical component for producing absolutely flat and uniform wafer surfaces. In both industries, colloidal silica performs equally well as a rough surface remover and final polishing additive, and eliminates the need for other surface preparation steps. In chemical-mechanical planarization, colloidal silica is used to flatten out the irregularities in the films applied to the semiconductor substrates during integrated circuit fabrication.

With colloidal silica, different substrates (e.g., silicon, aluminum and sapphire) can be polished to a surface roughness of nanometer, or if needed Angstrom level. In all cases, wafers can be polished to low-defect and ultra-flat surfaces. Colloidal silica is also a key component in the optical lens industry. Following the rough shaping of an optical substrate using a diamond stylus, it is polished to a deformation-free surface using colloidal silica.

The global Colloidal Silica CMP Abrasives market size is projected to grow from US\$

225 million in 2024 to US\$ 291 million in 2030; it is expected to grow at a CAGR of 4.4% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Colloidal Silica CMP Abrasives Industry Forecast” looks at past sales and reviews total world Colloidal Silica CMP Abrasives sales in 2023, providing a comprehensive analysis by region and market sector of projected Colloidal Silica CMP Abrasives sales for 2024 through 2030. With Colloidal Silica CMP Abrasives sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Colloidal Silica CMP Abrasives industry.

This Insight Report provides a comprehensive analysis of the global Colloidal Silica CMP Abrasives landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Colloidal Silica CMP Abrasives portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Colloidal Silica CMP Abrasives market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Colloidal Silica CMP Abrasives and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Colloidal Silica CMP Abrasives.

United States market for Colloidal Silica CMP Abrasives is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Colloidal Silica CMP Abrasives is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Colloidal Silica CMP Abrasives is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Colloidal Silica CMP Abrasives players cover Fuso Chemical, Merck, Nouryon, Grace, Nalco, etc. In terms of revenue, the global two largest companies occupied for a share nearly

% in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Colloidal Silica CMP Abrasives market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Particle Size 10-20 nm

Particle Size 20-50 nm

Particle Size 50-130 nm

Others

Segmentation by Application:

Wafers

Optical Substrate

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Fuso Chemical

Merck

Nouryon

Grace

Nalco

Shanghai Xinanna Electronic Technology

Suzhou Nanodispersions

ACE Nanochem

Evonik Industries

Key Questions Addressed in this Report

What is the 10-year outlook for the global Colloidal Silica CMP Abrasives market?

What factors are driving Colloidal Silica CMP Abrasives market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Colloidal Silica CMP Abrasives market opportunities vary by end market size?

How does Colloidal Silica CMP Abrasives break out by Type, by Application?

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