

# Global Sialon Market Data Survey Report 2025

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## Abstracts

### Summary

Sialon ceramics are a specialist class of high-temperature refractory materials, with high strength (including at high temperature), good thermal shock resistance and exceptional resistance to wetting or corrosion by molten non-ferrous metals, compared to other refractory materials such as, for example, alumina. A typical use is with handling of molten aluminium. They also are exceptionally corrosion resistant and hence are also used in the chemical industry. Sialons also have high wear resistance, low thermal expansion and good oxidation resistance up to above ~1000 °C. They were invented by Kenneth Henderson Jack in 1984.

The main contents of the report including:

Global market size and forecast

Regional market size, production data and export & import

Key manufacturers (manufacturing sites, capacity and production, product specifications etc.)

Average market price by SUK

Major applications

Key manufacturers are included based on manufacturing sites, capacity and production, product specifications etc.:

McDanel

Hitachi Metals

Ferrotec

Insaco

AG materials

CeramTec

Syalons

Shinagawa

Major applications as follows:

Military

Aerospace

Machinery

Metallurgical

Others

Regional market size, production data and export & import:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

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