

The Global Market for Aluminium Oxide Nanoparticles: Market Size, Production Volumes, Applications, Products, Prospects and Companies

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Abstracts

In the coatings sector, aluminium and aluminium oxide nanoparticles are used for corrosion, scratch and wear resistance and display high thermal barrier properties as well as being superhydrophobic; in composites they provide high barrier, durability, fire retardancy, stiffness, thermal fatigue resistance, fracture toughness, creep resistance and wear resistance. Tensile strength is increased by factors of 2-4.

Advantages of Aluminium oxide nanoparticles

Chemically stable.

Mechanical strength enhancement.

Electrical insulating.

Markets for Aluminium oxide nanoparticles

Main end user markets for Aluminium oxide nanoparticles are:

Academia and research.

Automotive.

Filtration

Military.

Energy.

Coatings.

Oil & gas.

Electronics.

Aluminium oxide nanoparticles applications

Recent applications include oil and gas aluminium drill pipelines. Application of aluminium oxide nanofluids in enhanced oil recovery (EOR) has also been increasing in the recent years. The ability of nanoparticles to alter certain factors in the formation and in oil properties can enhance recovery.

This report provides:

Comprehensive quantitative data and forecasts for the global aluminium oxide nanoparticles market

Commercialization timelines

Production estimates

Full company profiles

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