

Advantages of Alumina Ceramic Balls

Alumina balls are spherical in shape and boast various functional advantages, including their chemical inertness, resistance to high temperatures and mechanical strength. High alumina support media from 99% pure is designed with low silica content for use in steam applications where leached silica may coat downstream equipment or foul the catalyst bed.

Chemical Inertness

Alumina ceramic balls' chemical inertness makes them suitable as catalyst covering and packing material in reaction vessels and tower packing for petroleum, natural gas and chemical fertilizer production industries. Alumina ceramic balls also function well for applications involving gas adsorption/separation as they can withstand corrosion from acids/alkali/organic solvents as well as high temperatures/pressures without becoming damaged.

Alumina balls are also highly resistant to thermal shock, an essential factor in their suitability as catalyst support materials. Alumina ceramics achieve this resistance due to the inclusion of aluminum oxide which has a higher melting

point than steel; consequently allowing alumina ceramics to withstand thermal shock for extended periods.

Inert alumina ceramic ball is used extensively as the packing material in reactors and towers in industries like petrochemical, oil refinery, natural gas production, chemical fertilizer production and environmental protection. This is due to its superior characteristics of high temperature resistance and pressure resistance as well as low water absorption rate, stable chemical performance and resistance against acid and alkali reactions as well as organic solvent corrosion.

