



KWS Ceramic Hanger Bearings are Made from Zirconia

KWS Ceramic Hanger Bearings

KWS ceramic hanger bearings are made from Zirconia; a tough, solid, non-porous, material that has a tensile strength and coefficient of thermal expansion similar to mild steel, but with four times the compressive strength, and very high thermal stability.

Designed for harsh applications, ceramic hanger bearings are used in a variety of industries, including chemical, food, mining, and recycling. KWS supplies both style 216 and 226 hanger bearings from ceramic material.

Features

Wear Resistance – Significantly harder and tougher than hard iron, bronze or Gatke

Corrosion Resistance – Non-metallic and highly resistant to chemicals and acids

Wide Temperature Range – Operating temperatures ranging from -32 to +1000 degrees F

Benefits

Extended Lifespan – Longer lifespan and reduced wear even under heavy loads

FDA approved – FDA approved and suitable for environments with moisture or chemicals

Variety of Applications – Used for conveying many different abrasive bulk materials such as Bottom Ash, Flue Dust, and Petroleum Coke

Ceramic hanger bearings are well-suited for applications with high conveying volumes and abrasive materials, where other bearing materials might quickly deteriorate. The high strength and toughness of the ceramic material allows for high radial loads without significant wear, at speeds up to 75-rpm. A hardened coupling shaft is required when using a ceramic hanger bearing. Optional Stellite coupling shafts are available for the most extreme applications. Please refer to the KWS Screw Conveyor Engineering Guide for more information.



Ceramic is Significantly Harder and Tougher than Hard Iron, Bronze or Gatke



Ceramic Hanger Bearings are Well-Suited for High Conveying Volumes and Abrasive Materials



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