



Stellite Hanger Bearings are Used in Heavy Industries Such as Metals and Mining as Well as Power and Recycling

KWS Stellite Hanger Bearings

Stellite is a cobalt-based alloy with outstanding abrasion resistance and toughness. Sleeves made from Stellite are welded to the outside diameter of coupling shafts and to the inside diameter of KWS hard iron hanger bearings. The Stellite surfaces of the coupling shaft wear directly on the Stellite surfaces of the hanger bearing. Stellite is resistant to seizing and galling, even at elevated temperatures.

Stellite hanger bearings are commonly used in heavy industries such as metals and mining as well as power and recycling. Stellite bearings are well-suited for applications with high conveying volumes and extremely abrasive bulk materials, where other bearing materials will quickly deteriorate. Lubrication is not required or recommended for Stellite coupling shafts and hanger bearings. KWS supplies both style 216 and 226 hanger bearings from Stellite material.

Features

Superior Wear Resistance – Resistant to extremely abrasive bulk materials, seizing and galling

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

No Lubrication Needed – Stellite wear surfaces are low friction for smooth operation

Benefits

Reduced Maintenance and Downtime – Extended operation time improves productivity and reduces scheduled maintenance

Extreme Conditions – High temperatures have little effect on hardness and toughness of Stellite

Variety of Applications – Used for conveying fly ash, coke, metal powders, or alumina

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.



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Stellite is a Cobalt-Based Alloy with Outstanding Abrasion Resistance and Toughness



Operating Temperature Range is -32 to +1000 degrees F



Features & Benefits



Used for Applications Involving Very High Loads and Speeds Up to 50 rpm



Stellite Sleeves are TIG Welded to Shaft and Finish Ground



Stellite Bearings Must Be Used with Stellite Coupling Shafts



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