



Friction Materials & Phenolic Bearings



Scan-Pac (Gatke) composite hanger bearings and wear products

Gatke hanger bearings are produced in a variety of styles and sizes to fit every type of screw conveyor. Gatke bearings provide longer wearing service for products such as soda, ash, carbon black, rubber, latex, cotton oil, corn based agricultural products, citrus bi-products, pulp & paper, sugar cane, barium and foods of all kinds.

Gatke composite products are made of laminated plastic material produced by impregnating fabric with a thermosetting resin and dry lubrication compounds. The resultant composite is manufactured under high pressure and temperature to insure an extremely strong, impact resistant bearing material that can be molded to desired shape or easily machined to specific size and tolerance requirements. Gatke typically replaces bronze, Babbitt, and many standard steel bearings.



As well as bearings, the Gatke material can be made in tube, flat sheet or almost any finished configuration desired. The properties of this composite material possess numerous unique features:



Low Coefficient of Friction: Gatke material can be used either wet or dry and in combinations of lubricant, depending on application. The addition of solid lubricants during the manufacturing process enhances the self-lubricating properties of the bearings without the addition of grease or oil.

Excellent Dimensional Stability and Corrosion Resistance: Gatke composite material exhibits virtually no swell in water. In addition to water resistance, Gatke bearings are resistant to most chemicals, both acidic and basic.



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High Load and Excellent Shock Capabilities: Gatke bearing material exhibits high ultimate compressive yield strength and excellent shock load capabilities. This makes it an excellent choice for applications where frequent high impact and low amplitude oscillation cause a pounding that can shorten bearing life or lead to bearing failure. These outstanding mechanical properties allow the bearing to operate under severe edge loading conditions. Generally, Gatke bearings fit within the same design envelope as traditional bronze bearings.

Typical applications for Gatke bearings and wear products cover a wide range of industries:

- o Rail and Transit
- o Construction Equipment
- o Metal Rolling mills (Aluminum & Steel)
- o Paper and Pulp Mills, Chemical Processing Plants
- o Mining Crushing and Grinding Equipment
- o Water Processing Plants
- o Machine Press Wear Guides
- o Scan-Pac also produces a line of Gatke standard size bearings for the Screw Conveyor Industry (Martin-Sprocket and other Manufacturers).



Please click on the link below to browse our online Gatke hanger bearings catalog.

http://www.scanpac.com/cm/pdfs/ScanPac_Gatke_Catalog2010.pdf

Our courteous and knowledgeable sales and service staff is available Monday through Friday from 8 AM to 5 PM to answer any question, or assist in making material recommendations for your applications.

Phone: 262-255-2525

Fax: 262-255-2528

E-Mail: sales@scanpac.com