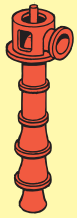
Application assessment or quotation

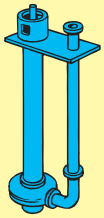
Please complete the form and fax to **+27 11 616 22 22** or **+27 11 615 38 10.**

If possible include a cross section or assembly diagram showing pump design and bearing location.



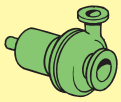
Axial flow / mixed flow

- ☐ Lineshaft
- ☐ Pump bowl
- ☐ Stuffing box
- ☐ Suction cover



Sump

- ☐ Impeller support
- ☐ Shaft support
- ☐ Wear ring



Centrifugal

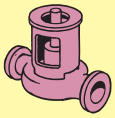
- ☐ Wear ring
- ☐ Support bearing

Split case

- ☐ Wear ring
- ☐ Support bearing
- ☐ Lantern ring

Submersible

- ☐ Lineshaft



In line

- ☐ Wear ring
- ☐ Support bearing

Other (specify).....

Pumped product ☐ Water ☐ Other (specify)..... ☐ Clean ☐ Dirty (specify).....

Bearing size ☐ mm ☐ inches

Split bearing required ☐ Yes ☐ No

Housing/casing diameter .....

Flange diameter (if required) .....

Shaft/impeller diameter .....

Flange thickness .....

Bearing length .....

Number of bearings .....

Operational conditions

Rotational speed (RPM).....

Maximum temperature ☐ °C ☐ °F

Load ☐ kg ☐ lbs

Minimum temperature ☐ °C ☐ °F

Current material used

☐ Bronze ☐ Elastomer ☐ Rubber ☐ Cutlass ☐ Other (specify).....

Lubrication ☐ Product ☐ Water ☐ Grease ☐ Oil ☐ None

Contact details

Company .....

Contact Name .....

E-mail.....

Website www .....

Address .....

Country .....

Postal / Zip code.....

Telephone + ( ) .....

Fax + ( ) .....

Please quote quantity per order.....

Quantity per year .....

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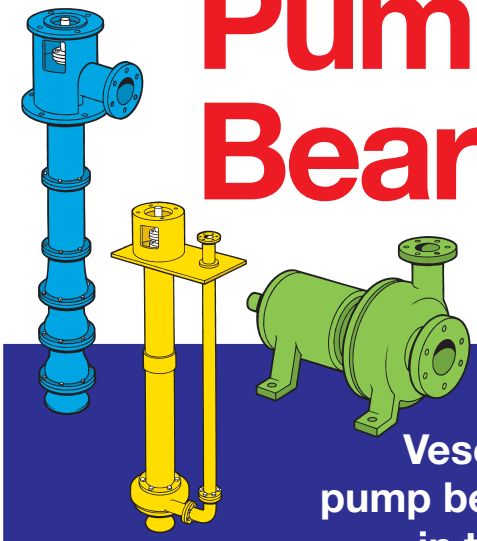
Vesconite and Vesconite Hilube Pump Bearings



Vesconite and Vesconite Hilube are superior pump bearing materials giving exceptionally long life in tough and critical pumping applications.

Vesconite has been used worldwide in many critical pumping applications including: Cooling water pumps for power stations, river abstraction pumps, fire fighting and service water pumps, irrigation and potable water pumps.

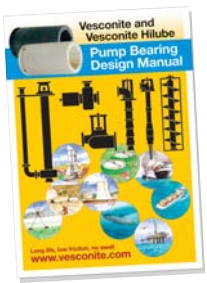
Vesconite is an internally lubricated low friction long life polymer bearing material specially designed to overcome immersed bearing problems. Vesconite Hilube contains advanced solid lubricants to give an even lower friction and a longer life and the ability to overcome dry start-ups and dry running situations.

Vesconite is available worldwide at international stocking points and has been supplied to over 60 countries for a variety of demanding applications.

Vesconite is an ideal bearing material when running wet or immersed. Water and many other fluids provide a good lubrication for the bearings. Vesconite has been used in rudder and stern tube bearings in the marine industry, pumps, water treatment plants, dam gates and many other wet applications.

Go to **www.vesconite.com** for:

- **Online Design-a-Bearing calculators** – correctly designed bearings are only a click away
- **Application success stories –** just some of the pumps successfully fitted with Vesconite.
- **Technical information** – drinking water approval certificates and technical specification sheets



The Vesconite and Vesconite Hilube Pump Bearing Design Manual gives useful information on:

- Why Vesconite and Vesconite Hilube are the pump bearing materials of choice
- Design hints for bearings for various pump types
- Correct sizing information and useful technical information

Request your FREE Design Manual on www.vesconite.com

Why Vesconite and Vesconite Hilube are ideal for pump bearings

- Low friction
- Low shaft wear
- Easy to install and remove
- High compression strength
- Resistant to chemicals
- Able to run dry
- Negligible water swell
- No delamination
- Safety and health
- Drinking water approval
- Low thermal expansion
- Environmentally friendly
- Easy to machine

What is Vesconite?

Vesconite and Vesconite Hilube are specialized plain bearing materials made from internally lubricated low friction polymers. Vesconite bearings give excellent wear in harsh, wet, dirty or unlubricated conditions.

Vesconite and Vesconite Hilube have many advantages over traditional bearing materials such as bronze, acetal, nylons, nitriles, rubbers, elastomers, phenolics and laminates (whether dry or lubricated). Vesconite does not swell or soften when immersed which means that fine clearances are maintained.

Vesconite

– low friction, long life, well proven

The internally lubricated long life bearing material that has been proven in thousands of critical applications. Originally developed to overcome bearing problems caused by water swell of traditional non-metallic bearing materials. Gives a long life and low shaft wear.

Vesconite Hilube

– lowest friction, longest wear life, lowest shaft wear

The advanced grade of Vesconite with advanced internal lubricants giving a lower friction, lower wear rate and a greater ability to run dry. Able to survive typical dry running pump conditions for over one minute.

Vesconite Hilube has the same dimensional stability, mechanical properties and chemical resistance as Vesconite.

Hitemp 150

– high temperature, abrasion resistant

A low wear bearing material specially formulated for higher temperature resistance, Hitemp 150 can run at elevated temperatures up to 150°C (300°F), and up to 120°C (235°F) in water or steam.

Hitemp 150 also has exceptional abrasion resistance and is well suited to pump applications of media with suspended dirt particles.

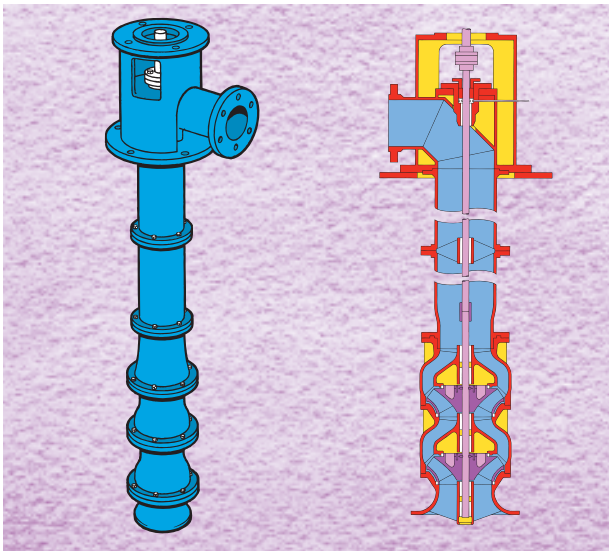
Hitemp 150 may be the material of choice when corroded or rough shafts cannot be avoided.

Local Representative:

Fitting your pump – Summary examples

Vesconite and Vesconite Hilube offer significant advantages over traditional pump bearing solutions in a number of pump applications.

Vertical spindle turbine pumps



Top stuffing box bearings

- Vesconite Hilube is ideal for dry start up conditions where lubricating water may take some time before reaching the bearing
- Closer running clearances mean reduced seal wear

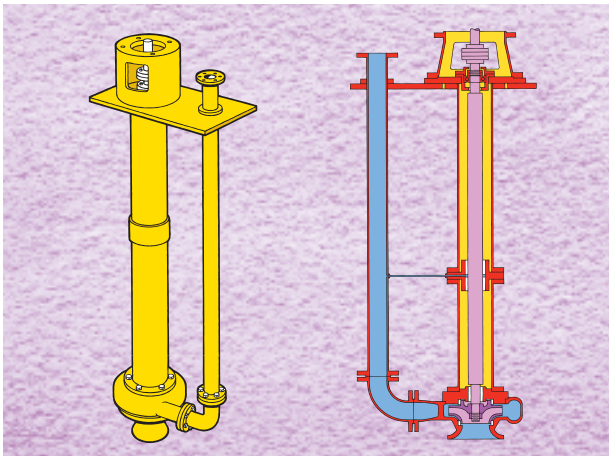
Lineshaft and pump bowl bearings

- Long life and low shaft wear
- Can be lubricated with process water as well as oil
- Vesconite Hilube able to survive dry start up conditions or temporary suspension of water flow
- Closer running clearance means less shaft run out and vibration

Suction cover bearings

- Good wear life even in dirty conditions
- Can be lubricated with process water rather than dedicated grease or oil supply and so problems with cumbersome lubrication lines are avoided.

Vertical spindle sump pumps



Shaft support bearings

- Can be lubricated with water or process fluids as well as grease or oil, reducing problems with lubrication lines during installation
- Able to survive temporary suspension of lubrication during start up or pump snoring reducing requirements to prime pump and maintenance

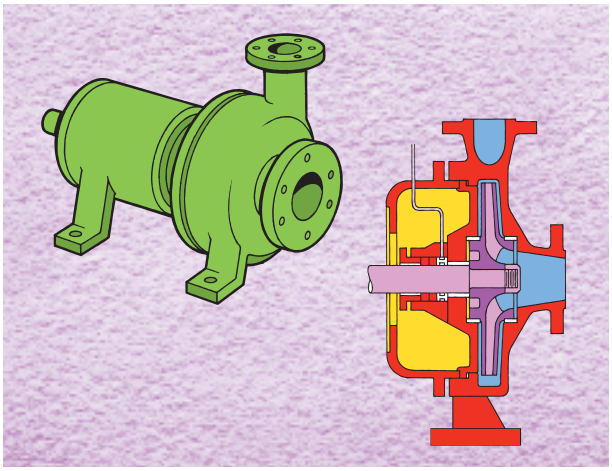
Impeller support bearings

- Close running clearances
- Low wear
- Can run dry temporarily

Wear rings

- Close running clearances improve pump efficiency
- No damage is caused in the case of contact between wear ring and impeller or casing

Centrifugal pumps



Support bearings

- Low wear rate
- Closer clearances give a stable shaft and lower seal wear

Lantern rings

- Low friction gives ability to survive temporary suspension of lubrication water
- Dimensional stability allows for closely defined clearances to regulate water flow

Impeller and casing wear rings

- Low friction and low water swell allows smaller running clearances giving better pump efficiency