Tufcot® Composite Spherical Bearings

Tufcot® composite spherical bearings have been manufactured and supplied to a wide range of engineering markets worldwide for many years.

They offer many significant advantages over conventional and other non-metallic spherical bearings due to their ability to be used in difficult environmental and service conditions.

Tufcot® spherical bearings are used in many applications, often in dry or partial lubrication conditions, and in applications where shock loads are present.

Tufcot® spherical bearings, can be a direct replacement for conventional steel spherical bearings or custom designed to suit individual customer requirements. We can offer a variety of bearing assembly formats such as, composite housing with a composite ball, a composite housing with a stainless-steel ball, and or a stainless ball with a Tufcot® bushing in the I.D of the ball. Bearing design is often dependent upon the loads involved in the application.

We offer a professional service with technical support from our team of application engineers including, bearing design and bearing installation, material selection recommendation, technical proposals and machining recommendations.

Assistance with installation can also be provided.

www.tufcot.com  +44 (0)114 244 2363  info@tufcot.com
Advantages

- Self-Lubricating
- No Maintenance
- High Strength to Weight Ratio
- Minimal Swell in Water
- Low Friction
- Easy Installation

Applications

Tufcot® is useful for a wide range of applications including:

- Commercial Solar Farm Equipment
- Agricultural Equipment
- Deck Cranes
- Cylinder Eye Ends
- Hydro Power Equipment
- Water Treatment Equipment

Properties

<table>
<thead>
<tr>
<th>TYPICAL PROPERTIES FOR TUF Cot GRADE</th>
<th>T100MP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate Compressive Strength (radial)</td>
<td>350 N/mm²</td>
</tr>
<tr>
<td>Coefficient of Friction (dry)</td>
<td>0.12 - 0.15</td>
</tr>
<tr>
<td>Coefficient of Friction (wet)</td>
<td>0.15 - 0.18</td>
</tr>
<tr>
<td>Swell in Water, Volumetric</td>
<td>&lt;0.1 %</td>
</tr>
<tr>
<td>Maximum Operating Temperature</td>
<td>100 °C</td>
</tr>
<tr>
<td>Thermal Expansion</td>
<td>6 x 10⁻⁵ /°C</td>
</tr>
<tr>
<td>Impact Strength (IZOD)</td>
<td>27 J</td>
</tr>
</tbody>
</table>

www.tufcot.com  +44 (0)114 244 2363  info@tufcot.com