Achieve a constant electrical performance: even in high humidity

INSOCOAT bearings

Whenever electric current passes through rolling bearings, there is a risk of electrical erosion, which is a threat to the reliability of your machines. Electrical erosion can damage and degrade bearings in traction motors, electric motors and generators, resulting in costly maintenance and loss of valuable uptime.

With an improved insulating coating, INSOCOAT bearings combat electrical erosion and provide constant electrical performance, even in high humidity. By preventing unscheduled downtime and unplanned maintenance, INSOCOAT bearings create value for your business.

New product features

• Improved plasma spray coating process
• Improved ceramic layer and sealant
• Clearly visible new colour of coating
• Updated electrical specifications

This leads to

• Enhanced protection against electric current damage even in humid climates (diagram 1)
• High degree of robustness during transport and handling
• Increased minimum ohmic resistance value of 200 MΩ (table 1)
• Bearings tested to withstand voltages of at least 3 000 V DC
**Consistent electrical performance**

INSOCOAT bearings have been significantly developed and improved, but the basic bearing designation and the mechanical properties of the coating remain unchanged.

We have also clearly defined the measurement procedure of the electrical properties of each bearing, to make it as straightforward as possible to use in your applications.

With our unique coating and bearing manufacturing capabilities, we can help you to apply the most appropriate option for your requirements.

**Table 1**

<table>
<thead>
<tr>
<th>SKF specification designation suffix</th>
<th>Breakdown voltage [V] DC</th>
<th>Minimum electrical resistance [MΩ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer ring coating</td>
<td>Inner ring coating</td>
<td></td>
</tr>
<tr>
<td>SKF standard layer VL0241</td>
<td>VL2071</td>
<td>3 000</td>
</tr>
<tr>
<td>SKF advanced layer VL0246</td>
<td>VL2076</td>
<td>3 000</td>
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