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

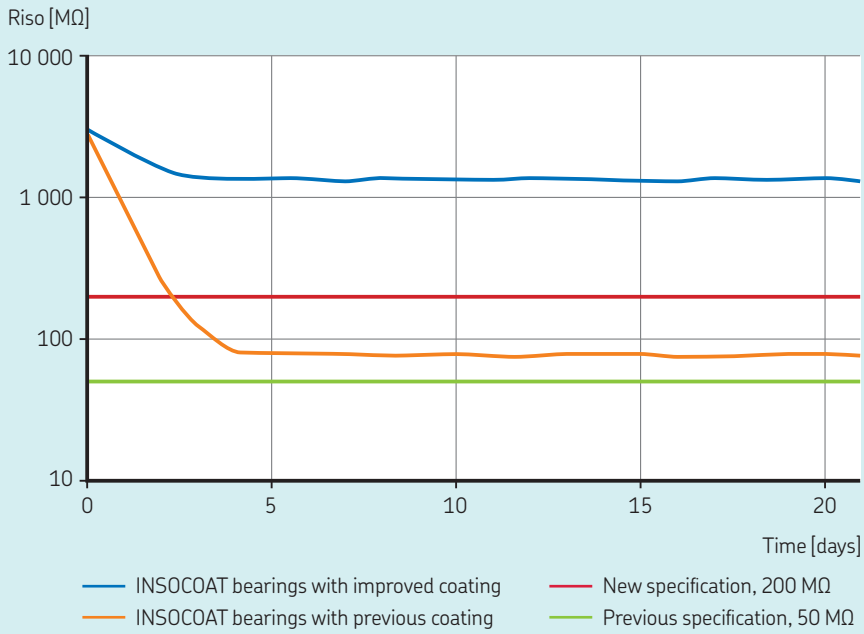
- Improved plasma spray coating process
- Improved ceramic layer and sealant
- Clearly visible new colour of coating
- Updated electrical specifications

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 MOhm (**table 1**)
- Bearings tested to withstand voltages of at least 3 000 V DC

Diagram 1

Comparison of ohmic resistance under humid environment



INSOCOAT bearing with previous coating

INSOCOAT bearing with new improved coating

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 straight-forward 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

INSOCOAT specifications, T ≤ 40 °C, rH ≤ 60%

SKF specification designation suffix		Breakdown voltage	Minimum electrical resistance
		[V] DC	[MΩ]
Outer ring coating	**Inner ring coating**		
SKF standard layer VL0241	VL2071	3 000	200
SKF advanced layer VL0246	VL2076	3 000	400

skf.com

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