



Coating system for current insulation: Insutect A

Features

The Insutect A coating system is applied using the plasma spray method and then sealed.

Various coating variants are available for the different areas of application, such as in the Rail and Wind sectors for example, or for three-phase motors in general, see table. The suitable coating variant is selected according to requirements.

Advantages of the ceramic coating

- Prevention of damage due to the passage of current
- Longer operating life of lubricating greases
- Same dimensions and tolerances as standard bearings:
 - quick solution for problems with the passage of current
- Cost-effective solutions for preventing damage due to the passage of current
- Coating can be applied to the outside and inside diameter (dependent on the geometry)
- Dielectric strength of up to DC 5 000 V
- Capacitive resistance increases with layer thickness
- Suitable for dry and damp conditions (depending on the coating system).

Properties

Characteristic		Coating variant					
		J20AA	J20C	J20B	J20A	J20AB	J20G
Bearing coating	–	OR	IR	OR	OR	OR	OR
Layer thickness	μm	200	200	≤ 100	> 200	100	700
Operating environment	–	Dry, damp	Dry, damp	Dry	Dry	Dry, damp	Dry, damp
Dielectric strength	DC V	≤ 3 000	≤ 3 000	≤ 500	≤ 1 000	≤ 1 000	≤ 5 000
	Dry	MΩ	50	50	50	50	150
	Damp	MΩ	10	10	–	–	10
Possible dimensions							
Inside diameter	mm	–	70	–	–	–	–
Outside diameter	mm	70 – 800	800	70 – 1 400 ¹⁾	70 – 1 400 ¹⁾	70 – 800	70 – 800

¹⁾ 800 mm – 1 400 mm preferred.



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