

Product Data Sheet

AkzoNobel Powder Coatings

Interpon 100 AN137QF 17-7005 ECB1363A BLACK

Product Description	Interpon 100 – AN137QF is an electrical grade functional epoxy powder coatings designed for use in a wide variety of electrical, mechanical and chemical applications. Hard, high edge coverage materials, AN137QF is ideal for the integral insulation of electric motor cores, low and high voltage bus bar, hermetic connectors, and watt-hour meter coils		
Powder Properties	Chemical type	Epoxy	
	Application Method	Fluid Bed	
	Gloss level (Gardner 60°)	65 ± 5	
	Recommended Film thickness	10+ mils	
	Specific gravity	1.75 ± 0.05 g/cm ³	
	Coverage @ 1.0 mil	109.89 ft ² /lb/mil	
	Storage	Maximum 80°F	
	Shelf life	12 months	
	Curing schedule (at object temperature)	Object temp @ 400°F Postheat: 10 min @ 450°F	
Mechanical Tests	Flexibility	ASTM D522	1/8" mandrel
	Adhesion	ASTM D3359	100%
	Impact resistance (Direct)	ASTM 2794	40 minimum
	Hardness	ASTM3363	H minimum
Environmental and Durability Tests	Neutral Salt Spray	ASTM B117	<1/8" creep, no blisters, 500 hrs
	Humidity	ASTM D2247	No Change at 1000 hours
	Exterior Durability		No
Typical Performance Characteristics	Hardness, Shore D	ASTM D2240	94
	Tensile Strength	ASTM D638	7500 PSI
	Coefficient of Thermal Expansion	ASTM D696	3.4 x 10 ⁻⁵ in/in/°C
	Dielectric Constant		5.8
	Dielectric Strength	ASTM D149	800 volts/mil
	Thermal Shock Resistance		Passes 12 cycles (+400°F to -20°F)
	Thermal Conductivity	ASTM E1461	0.285 W/(m*K)
Pre-treatment	Steel surfaces to be coated must be clean and free from oils, grease, mill scale and rust. For maximum protection, it is essential to pre-treat components prior to the application of Interpon 100. Iron phosphate and zinc phosphate of ferrous metals improve corrosion resistance.		
Application	Interpon 100 powders can be applied by various methods. It is recommended that for consistent application and appearance product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.		
Safety Precautions	Please consult the Safety Datasheet (SDS).		

**Additional
Information**

This product is UL OCTD2.E34521 recognized to UL Designation ECB1363A. For UL OCTD2.E34521, following is the applicable data.

Min Film Thickness (mm)	Metal Thickness (mm)	Flame Class UL-94	HWI	HAI	RTI Elec	RTI Imp	RTI Str	CTI
0.05	3.3	V-0	-	-	130	130	130	0
0.25	1.0	-	0	0	130	130	130	-

Disclaimer

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product.

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