

# Product Data Sheet



## AkzoNobel Powder Coatings

### Interpon D1010 GN102QF RAL 9005 Jet Black

<b>Product Description</b>	<p><b>Interpon D1010</b> is a range of durable powder coatings specially formulated for use on architectural aluminum components. <b>Interpon D1010</b> conforms with the performance of the AAMA2603-22 specification and exhibits excellent exterior durability and color retention. <b>Interpon D1010</b> powders are available in a wide range of colors.</p>		
<b>Powder Properties</b>	<b>Chemical type</b>	Polyester TGIC Free	
	<b>Appearance</b>	Smooth	
	<b>Gloss level (Gardner 60°)</b>	50 - 60	
	<b>Recommended Film thickness</b>	2.4 – 3.2	
	<b>Specific gravity</b>	1.25 +/-0.05 g/cm <sup>3</sup>	
	<b>Coverage @ 1.0 mil</b>	153 sq.ft/lb/mil	
	<b>Storage</b>	Dry cool conditions below 75°F (24°C)	
	<b>Shelf life</b>	12 months	
	<b>Curing schedule (at object temperature)</b>	20-50 minutes at 356°F (180°C) 15-35 minutes at 375°F (191°C) 10-25 minutes at 392°F (200°C) 8-15 minutes at 410°F (210°C)	
<b>Mechanical Tests</b>	<b>Adhesion</b>	AAMA2603-22 8.4	Pass – no removal of film.
	<b>Impact Resistance</b>	AAMA2603-22 8.5	Pass – no tape removal of film to substrate following 0.1” deformation.
	<b>Dry Film Hardness</b>	AAMA2603-22 8.3 ASTM3363	Pass H – no rupture of film.
<b>Environmental and Durability Tests</b>	<b>Salt Spray</b>	AAMA2603-22 8.7.2 ASTM B117	Pass at 1,500 hrs – no corrosion more than 1/32”–1/16” from scribe, minimum blister rating 8.
	<b>Wet Adhesion</b>	AAMA2603-22 8.3	Pass – no blisters or film removal.
	<b>Constant Humidity Resistance</b>	AAMA2603-22 8.7.1 ASTM D2247 ASTMD4585	Pass at 1,500 hrs – blister formation less than “few” size no. 8.
	<b>Muriatic Acid Test</b>	AAMA2603-22 8.6.1	Pass – no blisters; no change in appearance.
	<b>Mortar Test</b>	AAMA2603-22 8.6.2	Pass – no blisters, adhesion loss, or visual change.
	<b>Detergent Resistance</b>	AAMA2603-22 8.6.3	Pass – no blisters, adhesion loss, or visual change.
	<b>Exterior Durability</b>	AAMA2603-22 8.8	No checking, crazing, or loss of adhesion after tape pull and only slight chalking and fading after 1 year of Florida exposure.
	<b>Color Stability</b>	Good at elevated temperatures.	

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**Test Conditions** Testing has been determined under laboratory conditions using the following application properties and is for guidance only.

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**Substrate** Aluminum

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**Pretreatment** Chromate

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**Film thickness** 2.4 – 3.2 mils

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**Cure schedule** 15 minutes at 400°F (204°C)

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Actual film performance will depend on the individual circumstances in which the product is used.

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**Pre-treatment** For maximum protection, it is essential to pretreat components prior to the application of **Interpon D1010**. Aluminum components must receive a full multi-stage chromate conversion coating or suitable chrome-free pretreatment to clean and condition the substrate. Detailed advice should be sought from the pretreatment supplier.

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**Application** **Interpon D1010** can be applied by manual or automatic electrostatic spray equipment. It is recommended that for consistent application and appearance product be fluidized during application. For solid shades, unused powder can be reclaimed using suitable equipment and recycled through the coating system. For mixed colors and certain special finishes, advice must be sought from the manufacturer as to the suitability, or otherwise, of the product for recycling. For all mixed color/special effect systems, advice must be sought as to the correct mixing ratio for virgin/reclaim powder. For the application of the D-Series Architectural Products, the required Dry Film Thickness (DFT) is 2.4 – 4.5 mils, with no measurements below 1.8 mils.

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**Safety Precautions** Please consult the Safety Datasheet (SDS).

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**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 fulfill 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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Author: **Jinlan Ju**