

# Product Data Sheet

## AkzoNobel Powder Coatings

### Interpon HT 550 WN310JR

<b>Product Description</b>	<p><b>Interpon HT550 WN310JR</b> provides corrosion protection and appearance integrity for high temperature components (up to 550°C) such as stove, barbeque, exhaust and pipes that are made of aluminized steel substrates. <b>WN310JR</b> meets the requirements of the Caterpillar specification 1E2397 A standard High Temperature (Black). The temperature capability and the performance of the Standard High Temperature Paints are limited by the melting point (660°C, 1220°F) of the aluminium coating on the aluminized steel.</p>		
	<b>Appearance</b>	Black Powder	
	<b>Gloss level (60°)</b>	10 -20 units	
	<b>Density (g/cm<sup>3</sup>)</b>	1.8 ± 0.1 g/cm <sup>3</sup>	
	<b>Application</b>	Electrostatic	
	<b>Storage</b>	Under dry, cool (≤ 25°C) conditions	
	<b>Shelf life</b>	At least 6 months from production date	
	<b>Curing schedule</b> (at object temperature)	15 minutes at 230°C Failure to observe the correct curing conditions may cause difference in color, gloss and the deterioration of the coating properties.	
<b>Test Conditions</b>	<p>Testing has been determined under laboratory conditions using the following application properties and is for guidance only.</p> <p><b>Substrate</b> Type 1 Aluminized steel panels (ASTM A463)</p> <p><b>Film thickness</b> 45-65 µm</p> <p><b>Cure schedule</b> 15 minutes at 230°C (object temperature)</p> <p>Actual film performance will depend on the individual circumstances in which the product is used.</p>		
<b>Mechanical Tests</b>	<b>Flexibility</b>	ASTM-D522 (Conical Mandrel)	20% min
	<b>Adhesion</b>	ASTM-D3359 (2mm crosscut)	4B min
	<b>Hardness</b>	ASTM-D3363	2B min (typically 7H)
<b>Additional Tests</b>	<b>Cyclic Corrosion</b>	SAE J2334	20 cycles- pass, no blisters and rusting Av. creep before scraping: 3 mm max Av. Creep after scraping: 1 mm max
	<b>Thermal Exposure</b> (510°C for 4 hours)	Color visually acceptable	

	<p><b>Thermal Exposure</b> (510°C for 15 min) + <b>water quenching</b></p>	No cracking or adhesion loss
	<p><b>Water immersion</b> (240 hours)</p>	Good resistance to DI water: no corrosion and blisters. Pencil hardness (gouge): 7H Adhesion: 4B
<b>Pretreatment</b>	All oil and grease, scale, rust, dirt and process markings such as grease pencil or chalk must be removed. A multi-stage cleaning and a sand blasting (Rz 25-35) process is strongly recommended for optimum performances.	
<b>Application</b>	<b>WN310JR</b> powder can be applied by manual or automatic electrostatic spray equipment. Recommended film thickness is 45 – 65 µm (1.8-2.5mils). For more detailed information please contact AkzoNobel technical service team.	
<b>Additional information</b>	<p><b>Interpon HT550, WN310JR</b> was formerly known as MOR-TEMP™ BLACK 1E2397, 321MT97103.</p> <p>The customer/coater has to check the efficacy of the complete cycle, pretreatment/coating/polymerization, evaluating the performances on the finished handwork. It's therefore strongly recommended to perform some "life" tests (the simulation of the real use of the coated piece) in the absence of which AkzoNobel declines any responsibility to the customer/coater.</p>	
<b>Safety Precautions</b>	This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.	
<b>Disclaimer</b>	<p><b>IMPORTANT NOTE:</b> 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.</p> <p>Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.</p> <p>Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel.</p>	

<http://www.interpon.com/contact-us/>

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