

Product Data Sheet

AkzoNobel Powder Coatings

Interpon HT 550 WN304JR

Product Description

Interpon HT 550, WN304JR, provides corrosion protection and appearance integrity for high temperature components such as exhaust manifold and mufflers that are made of aluminized steel substrates. The temperature capability and 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.

Powder Properties

Gloss (60°)	5-15
Density	2.1 ± 0.1 g/cm ³
Storage	Dry cool conditions
Shelf life	Under dry, cool (<25°C) conditions 6 months at least
Stoving schedule (object temperature)	20 minutes at 210°C

Failure to observe the correct curing conditions may cause difference in color, gloss and the deterioration of the coating properties.

Test Conditions

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	Type 1 Aluminized steel panels (ASTM A463)
Film Thickness	45-65 µm
Stoving Schedule	20 minutes at 210°C (object temperature)

Mechanical Tests

Flexibility	ASTM-D522 (Conical Mandrel)	N/A
Adhesion	ASTM-D3359 (2 mm Crosscut)	4B min
Recoatability	ASTM-D3359 (2 mm Crosscut)	Not recommended
Hardness	ASTM-D3363 (Gouge)	2H

Other Tests

Salt Spray	(UNI ISO 9227/93)	>500 hrs
Thermal Exposure (400°C for 24 hours)		Slight loss of gloss hue (DE<1) neither cracking nor film detachment, it keeps good adhesion properties (GT0)
Thermal Exposure (600°C for 2 hours)		Loss of gloss and color, neither cracking nor film detachment, it keeps good adhesion properties

Pre-treatment

All oil and grease, scale, rust, dirt and process markings such as grease pencil or chalk must be removed. A multi-stage cleaning including a conversion coating is recommended for optimum performance

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Application

WN304JR powders 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.

Additional Information

Interpon HT550, WN304JR, was formerly known as MOR-TEMP™ BLACK PLUS, 321MT97003

Safety Precautions

Please consult the Material Safety Datasheet (MSDS)

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. 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.

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