

## Technical data sheet

|                            |  |
|----------------------------|--|
| <b>Date</b>                | : 9/13/2012  |
| <b>Product name</b>        | : <b>Interpon HT 450</b>   |
| <b>Product code</b>        | : <b>WN209QF (Formerly 99-7038)</b>  |
| <b>Color</b>               | : <b>Burner Black – Interpon HT 450</b>  |
| <b>Product Description</b> | : <b>Interpon HT 450</b> powder products are designed for high service temperature applications. These products retain their film integrity and offer substrate protection during continuous or intermittent exposure to elevated services temperatures ranging from approximately 600°F to 800°F. |

### Powder properties

|                            |                                  |
|----------------------------|----------------------------------|
| <b>Type</b>                | : Thermoset Silicone             |
| <b>Gloss (Gardner 60°)</b> | : 4-8                            |
| <b>Specific gravity</b>    | : 1.77 +/-0.05 g/cm <sup>3</sup> |
| <b>Coverage at 1.0 mil</b> | : 109 sq.ft/lb/mil               |
| <b>Storage conditions</b>  | : Maximum 70°F                   |
| <b>Shelf life</b>          | : 6 months, Cold Storage         |
| <b>Film thickness</b>      | : 1.8-2.5 mils                   |
| <b>Cure Schedule</b>       | : 15 minutes at 450°F            |

### Test Conditions

|                           |   |
|---------------------------|---|
| <b>Substrate</b>          | : Aluminized Steel  |
| <b>Cure schedule</b>      | : 15 minutes at 450°F   |
| <b>Dry film thickness</b> | : 1.8-2.5 mils  |
| <b>Testing condition</b>  | : The results shown above 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. |

### Mechanical tests

|                            |       |            |
|----------------------------|-------|------------|
| <b>Adhesion</b>            | : 2B  | ASTM D3359 |
| <b>Hardness</b>            | : 2H  | ASTM D3363 |
| <b>Impact</b>              | : 100 | ASTM D2794 |
| <b>Flexibility</b>         | : N/A | ASTM D522  |
| <b>Exterior Durability</b> | : Yes |            |

### Substrate pre-treatment

Proper substrate cleaning is critical to the performance of **Interpon HT 450**. Pretreatment is not recommended for any **Interpon HT 450** coating that will see service temperatures above 600°F.

Steel surfaces must be completely free of oil and grease, as well as scale and rust. Surface should have a water break free finish at minimum. For some applications, a grit blast may be adequate to increase adhesion.

Aluminum and Aluminum Steel surfaces must be completely free of oil and grease, as well as scale. Surface should have a water break free finish at minimum. Pre-baking may be necessary to drive off release agents in some porous aluminum castings.

## Application

**Interpon HT 450** powders can be applied by manual or automatic electronic spray equipment. 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.

## Additional Information

**Interpon HT 450** powders are substrate sensitive and choice of substrate will effect heat resistance of the coating. Powder has been tested at recommended cure schedule, and deviation from that cure cycle may alter coating appearance and performance.

## Safety Precautions

Please consult the Safety Datasheet (SDS).

### **FOR PROFESSIONAL USE ONLY**

**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 Safety 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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