**Technical Information**

**MEGUM™ W 7044**

**Description**
MEGUM™ W 7044 is a general purpose water-borne rubber to substrate bonding system for wheel bearing seals.

**Benefits & Features**
Durable adhesion to a variety of metal substrates. Very good environmental resistance.

**Uncured Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value</th>
<th>Unit</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Blue-Grey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solids Content</td>
<td>23 to 27</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Dry Film Density</td>
<td>1.3</td>
<td>g/cm³</td>
<td></td>
</tr>
<tr>
<td>VOC Content</td>
<td>1.20</td>
<td>lb/gal</td>
<td></td>
</tr>
<tr>
<td>Viscosity (25°C, Brookfield RVT)</td>
<td>0.010 to 0.15</td>
<td>Pa·s</td>
<td></td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>15.2</td>
<td>m²/l</td>
<td>Calculated</td>
</tr>
<tr>
<td>Recommended Film Thickness</td>
<td>5.1</td>
<td>µm</td>
<td></td>
</tr>
<tr>
<td>Recommended Film Thickness Range</td>
<td>2.5 to 15</td>
<td>µm</td>
<td></td>
</tr>
<tr>
<td>Shelf Life (45°C)</td>
<td>12</td>
<td>month</td>
<td></td>
</tr>
</tbody>
</table>

**Elastomer**
NBR, AEM AND ACM RUBBER COMPOUNDS

**Substrate**
CRS, zinc-phosphate pre-treated steel, manganese-phosphate pre-treated steel, aluminum

**Surface Prep**
Review Dow’s rubber-to-substrate bonding agent application guide or contact your account manager.

**Mix Instructions**
Diluents - Deionized, Distilled, or RO Water. Stir MEGUM W 7044 before using or diluting with water to assure that all the ingredients are properly mixed and uniformly distributed. Do not stir the adhesive so vigorously that a vortex forms in the pail, drum or container bringing in air. This will cause the adhesive to form a foam and make application more difficult. It could also destroy the adhesive by causing the key ingredients to fall out of solution.

**Application Technique**
Can be applied by brushing, dipping or spraying.

**Drying the Film**
Dry MEGUM W-7044 after applying to the metals or substrate at 180°F (82°C) for 3-5 minutes with good air flow in the dryer.

**Molding and Curing**
Can be used with all common molding and assembly techniques and vulcanization methods. Cure temperatures between 100°C and 205°C (212° to 410°F) are recommended.

**Dry Film Stability**
Excellent dry film stability or layover properties. Coated substrates with MEGUM W 7044 can be stored for several weeks if protected from contaminants, light and water.

**Clean-up**
Equipment clean up should be done using recommended dilution solvents.

**Packaging/Sizes Available**
Package product in either appropriately lined steel containers, plastic pails or drums.

**Storage & Stability**
The shelf life of this material is assured for 24 months (from the date of manufacture) at temperatures below 78°F in an unopened container.

**Toxicity and Safety Information**
Read the Safety Data Sheet before using this material. Toxicity and safety information is included in the SDS.

**Food Contact Applications**
Dow Automotive products are not approved for direct or indirect food contact or drinking water applications. If your applications include food contact or drinking water requirements, please contact your Dow representative. For more information on the regulatory status of this product, please refer to the SDS for this product.
**Notes**

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 gram 130°C for 1 hour</td>
</tr>
<tr>
<td>2</td>
<td>Spindle #2, @ 100 RPM</td>
</tr>
<tr>
<td>3</td>
<td>Recommended Film Thickness: 2.5-15 microns</td>
</tr>
<tr>
<td>4</td>
<td>Accelerated Aging at 45°C for 12 weeks/ 45-100°F (7-38°C)</td>
</tr>
</tbody>
</table>
Product Stewardship

The Dow Chemical Company and its subsidiaries ("Dow") has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our Product Stewardship program rests with each and every individual involved with Dow products — from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

Medical Applications Policy

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: Dow will not knowingly sell or sample any product or service ("Product") into any commercial or developmental application that is intended for:

a. long-term or permanent contact with internal bodily fluids or tissues. “Long-term” is contact which exceeds 72 continuous hours;

b. use in cardiac prosthetic devices regardless of the length of time involved ("cardiac prosthetic devices" include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);

c. use as a critical component in medical devices that support or sustain human life; or

d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

Dow requests that customers considering use of Dow products in medical applications notify Dow so that appropriate assessments may be conducted. Dow does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Dow product is safe, lawful, and technically suitable for the intended use. DOW MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY DOW PRODUCT FOR USE IN MEDICAL APPLICATIONS.

Disclaimer

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer’s use and for ensuring that the Customer’s workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. NOWARRANTIESAREGIVEN;ALLIMPLIEDWARRANTIESOFMERCHANTABILITYORFITNESSFORAPARTICULARPURPOSEAREEXPRESSLYEXCLUDED.

NOTICE: If products are described as "experimental" or "developmental": (1) product specifications may not be fully determined; (2) analysis of hazards and caution in handling and use are required; (3) there is greater potential for Dow to change specifications and/or discontinue production; and (4) although Dow may from time to time provide samples of such products, Dow is not obligated to supply or otherwise commercialize such products for any use or application whatsoever.

NOTICE: This data is based on information Dow believes to be reliable, as demonstrated in controlled laboratory testing. They are offered in good faith, but without guarantee, as conditions and method of use of Dow products are beyond Dow’s control. Dow recommends that the prospective user determine the suitability of these materials and suggestions before adopting them on a commercial scale.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability for the accuracy and completeness of such information.

Additional Information

North America

U.S. & Canada: 1-800-441-4369
1-989-832-1426

Mexico: +1-800-441-4369

Europe/Middle East

Italy: +800-783-825

+31-11567-2626

South Africa

+800-99-5078

www.dowautomotive.com

This document is intended for use within Asia Pacific, Europe, Latin America, North America

Published: 2017-03-27

© 2018 The Dow Chemical Company