Conpads™ Conductive Grounding Pads

Conpads™ Conductive Grounding Pads Cushion Aerospace Hardware against Damage and Safely Ground ESD

Cushioning and ESD Protection for Solid Fuel Rocket Motors and Related Hardware, from Storage to Launch

Product Description:

Conpads™ Conductive Grounding Pads protect solid fuel rocket motors by safely grounding ESD and cushioning motor housings and associated hardware against impact and vibration.

Stockwell Elastomerics fabricates Conpads to your specifications. You install them on-site, using a cold-bonding adhesive system that eliminates the need for hot vulcanization. We can help you select laminate combinations and teach your technicians how to bond Conpads to steel or aluminum chocks and support structures using RTV60-CON conductive silicone adhesive.

Stockwell Elastomerics provides samples of typical CONPAD configurations with RTV60-CON adhesive for evaluation and compatibility testings. A video is available for your technicians.

How to Specify a Conductive Grounding Pad

For example, the Conpad callout **0418-65-050-0**, 10.0" W x 30" L, specifies a 10" wide x 30" long conductive grounding pad, with .50" thick Firm silicone sponge core and .030" thick SE65-CON wrapped around the top, bottom, and 30" long edges. (The .50" x 10.0" sponge edges would remain exposed).
For long term outdoor use, Stockwell Elastomerics suggests a conductive silicone rubber cover laminated over silicone sponge. This laminate uses .030” SE65-CON, a carbon filled conductive silicone cover that offers long term dependability. In accelerated age testing by U.S. Testing Company, this laminate resisted aging due to sunlight and ozone for 10 years. It also has the broadest temperature range, from -65°F to 450°F. Its volume resistivity is rated at 5 Ohm-cm.

Click here for Video: Bonding a Conductive Grounding Pad to Aluminum Using RTV60-CON Adhesive

** SE65-CON Typical Performance Characteristics **

<table>
<thead>
<tr>
<th>Application Properties*</th>
<th>Cured Properties**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color</strong></td>
<td><strong>Durometer, Shore A</strong></td>
</tr>
<tr>
<td>Black</td>
<td>35</td>
</tr>
</tbody>
</table>

* Provided in 10.3 ounce cartridges, shelf life 6 months when refrigerated
** 7 days at 25% Relative Humidity and 70°F

Compression Force Deflection (CFD) is the amount of force required to deflect a material by a certain percentage of its original height. CFD is one of the factors to consider when selecting the firmness of silicone sponge that is best for the Conpad application.

Closed Cell Silicone Sponge Compression Deflection Curves*

* Nominal Values for Design Reference, Data begins at 10% Deflection

Conpads™ is a trademark of Stockwell Elastomerics.

Email: service@stockwell.com
Website: www.stockwell.com