



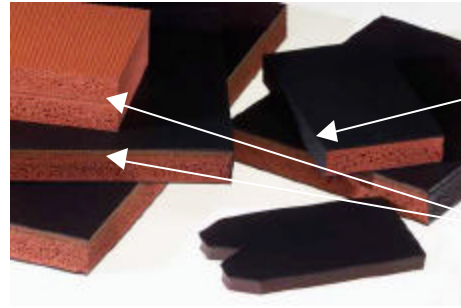
STOCKWELL ELASTOMERICS, INC.

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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



SR93 01/2003

Conductive Edge Treatment Completes Grounding

Sponge Composite is layered and bonded to specified thickness

Silicone Sponge Cushioning with conductive silicone surfaces

CONPADS Conductive Grounding Pads protect solid fuel rocket motors by safely grounding ESD and cushioning motor housings 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 to aluminum chocks and support structures, using RTV60-CON conductive silicone adhesive.

Stockwell provides free samples of typical CONPAD configurations for evaluation and compatibility testing.

For long term outdoor use Stockwell 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 offers the broadest temperature tolerance, from -65° to 450°F. Its volume resistivity is rated at 5 Ohm-cm.

Typical Performance Characteristics

Application properties *

Cured Properties **

Color	Black	Durometer, Shore A	35
Solids Content, %	75	Tensile Strength, Pounds/Square Inch	400
Skin Over Time, Minutes	7	Elongation, %	300
Tack Free Time, Minutes	45	Tear, Pound/Inch	40
Extrusion Rate, Grams/Minute 1/8" Nozzle @ 90 psi	>600	Volume Resistivity, Ohm-cm	5.0
Specific Gravity @ 25°C	0.93	Specific Gravity @ 25°C	1.04

RTV60-CON

Adhesive/Sealant is one part electrically conductive silicone rubber elastomer adhesive for bonding electrically conductive rubber to metal assemblies, typically used to promote ESD protection. It cures rapidly at room temperature when exposed to atmospheric moisture. The by-products of curing are **amines**, not acetic acid. MSDS is available.

* provided in 10.3 ounce cartridges, shelf life 6 months when refrigerated

** 7 days at 25% Relative Humidity and 70°F

How to Specify a Conductive Grounding Pad

Cushion Material	Surface Laminate	Sponge Thickness	Edge Treatment
0418 Firm Silicone Sponge	65 5 Ohm-cm Silicone (.030" Conductive)	025 0.25 +/- .04"	0 Conductive surface lamination wrapped around side edges
0480 Medium Silicone Sponge		038 0.38 +/- .045"	
0405 Soft Silicone Sponge		050 0.50 +/- .05"	3 Conductive silicone impregnated edges
		100 1.00 +/- .10"	
		150 1.50 +/- .15"	
		200 2.00 +/- .20"	1 Conductive surface one side

For example, the CONPAD callout 0418-65-050-0, 10.0" W x 30.0" 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).

Call us to find out more or e-mail us at service@stockwell.com for assistance.