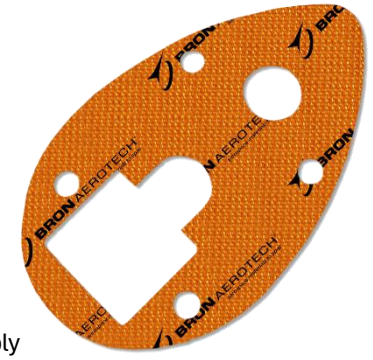
BA 1120

Urethane Filled Expanded Aluminum Gasketing



Description:

Urethane filled expanded aluminum gaskets provide a soft, electrically conductive fluid and pressure sealing solution for a variety of flange to flange assemblies. Developed to minimize galvanic corrosion of interfacing surfaces that require electrical bonding, these fully-cured gaskets are an effective solution in applications requiring lightning strike grounding or EMI shielding. With numerous performance improvements when compared to traditional gasketing alternatives, customers can expect a 30% lower total cost of ownership from various contributing factors including the avoidance of assembly rework and material replacement.

Features & Benefits:

- Conformable, high surface affinity urethane provides superior fluid sealing
- Expanded aluminum promotes uniform distribution of fastener loads and optimized electrical performance
- Soft urethane requires low deflective forces
- Wave-formed aluminum provides electrical continuity at gasket deflection as low as 15%

Applications:

Exterior mounted device bases (antennas, radars, lighting, etc)

Access panel assemblies (electronics bays and hatches)

Connector/waveguide assemblies

Construction/ Typical Properties	Value		Test Method
Metal:	3003 Aluminum Alloy		
Elastomer:	Translucent Orange Urethane		
Electrical Thru-Resistance:	0.0015 Ohms		ASTM D575
Shielding Effectiveness:	> 90 dB		CHO TP09
RoHS:	Pass		
	Imperial	Metric	
Minimum Wall Thickness:	188 mils	4.78 mm	
Minimum Hole Diameter	125 mils	3.18 mm	
Thickness:	27.5 mil	.70 mm	
Thickness:	55 mils	1.40 mm	
Low Temperature:	-65°F	-53.8°C	Various
High Temperature:	275°F	135°C	Various

The physical properties listed above are typical values and are not to be construed as specifications. Our suggestions and recommendations for use are based on tests we believe to be reliable. Bron Aerotech does not warrant that the product is fit for any particular purpose. Purchaser must determine suitability of the product for the intended use. Bron Aerotech, Inc. assumes no liability for claims beyond the replacement value of our product proved to be defective. Manufactured for and distributed by Bron Aerotech.

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