



Douglas Electrical Components

Ductorseal® Hermetic Feedthrus

Established 1944



Press Release

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For Immediate Release

Headline: NEW DEVELOPMENT IN FEEDTHRU TECHNOLOGY INCORPORATES HIGH TEMPERATURE CERAMIC POTTING COMPOUND TO SEAL CONNECTORS, WIRES, CABLES, AND FIBER OPTICS FOR APPLICATIONS UP TO 500°F

ROCKAWAY, NJ — March 1, 2003 — Douglas Electrical Components, an industry leader in providing a unique line of hermetically sealed conductors, has introduced a new ceramic potting compound which offers a breakthrough in sealing technology for applications up to 500°F. High-temperature applications for the ceramic-filled compound include feedthrus for HVAC compressors, pumps, autoclaves, solder reflow ovens, semiconductor processing equipment, and others. The compound can be applied to high-pressure service and weld-in design. In most customer applications, the compound allows flexibility in design for feedthrus at these high temperatures.

The compound demonstrates excellent electrical, mechanical, and chemical resistance properties. It is also fire resistant, self-extinguishing, and may be approved for explosion proof applications by UL or other certifying organizations. Its viscosity permits penetration of small cavities for design flexibility and it bonds well to aluminum, steel and copper alloys, enabling non-elastomeric sealing designs.

Douglas Electrical Components provides hermetically sealed connectors and

— more —

feedthrus and can hermetically seal any conductor through any housing, including wires, cables, harnesses, and fiber optics. The company also supplies turnkey sub-assemblies, including contacts, connectors and other components. These can be fully customized.

For more information or a copy of our 65-page Design Guide, contact Stephen B. Odiorne, Douglas Electrical Components, 14 Beach Street, Rockaway, NJ 07866. Tel: (973) 627-8230. Fax: (973) 627-5798. E-mail: odiorne@douglaselectrical.com. Web: www.douglaselectrical.com.

Key Characteristics	Units	DE43874
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Mechanical:

Color:		Light grey
Tensile strength:	psi	7600
Compressive strength:	psi	14000
Max. temperature service:	°F	500
Coefficient of expansion:	10 ⁻⁵ /°C	2.5
Hardness:	Shore	95-D
Thermal conductivity:	BTU-in/Hr ^o FFt ²	20

Electrical:

Dielectric constant (60 hz):		3.5
Dielectric strength:	V/mil	700
Volume resistivity:	(Ω-cm)	10 ⁺¹⁵
Dissipation factor:		0.01

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Photo Caption: Examples of Douglas Electrical Components new ceramic potting compound which offers a breakthrough in sealing technology for applications up to 500°F.