

ULTRA-HERM[®]

Patent Pending



ENIDINE



Protection from
the harmful effects
of shock and vibration.



ULTRA-HERM®

The ULTRA-HERM® (High Energy Rope Mount) incorporates the use of a traditional Enidine helical wire rope isolator encased in an elastomer based compound. The stainless steel cable of the mount provides for rugged construction, while the elastomer allows for additional damping and stiffness. This unique design results in a fail safe mount with a greater stiffness and energy absorption capacity compared to traditional isolation mounts.

Typical ULTRA-HERM® Applications

- Shipboard Shock and Vibration Control
- Pump, Generator & Compressor Isolation
- Shipping Cases, Skids & Containers
- Chemical Processing Equipment
- Carts, Transporters & Gurneys
- Galley and Lavatory Equipment
- Ground Support Equipment
- Over-the-road Transport
- Navigation Equipment
- Transportable Shelters
- Piping and Ducting
- Electronic Cabinets
- Military Equipment
- Engine Stands
- Avionics



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Overview

The ULTRA-HERM® mount can be customized to fit a wide variety of applications. This can be done by varying the wire rope diameter, the number of loops, and the chemical properties of the over mold. The ULTRA-HERM® performs well in low natural frequency “soft deck” applications of 12-16 Hz, reducing output G’s to below 15G’s. Its sealed nature of construction also provides for easy NBC washdown. Since the mounting size of the ULTRA-HERM® isolator is virtually identical to that of standard wire rope isolators used in many applications, equipment upgrades are both simple and seamless with direct fit capability.

Advantages

- Ultra-high damped elastomer maximizes shock attenuation performance.
- Requires less displacement to attenuate shock events compared to traditional isolators.
- The assembly has no organic materials, which allows for optimal performance in a variety of environmental conditions, including a wide temperature range.
- The elastomer meets the requirements for fire/smoke/toxicity concerns when installed in a closed space or sub-surface type application.

Performance Statistics

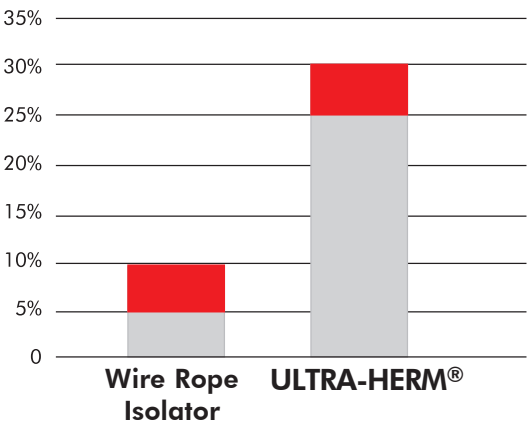
- Increased damping compared to traditional solutions.
- Wide extended operating temperature range from -100°F to 350°F
- Flame resistant, passing flame, smoke, and toxicity tests.

Shock and Vibration Stiffness Comparison

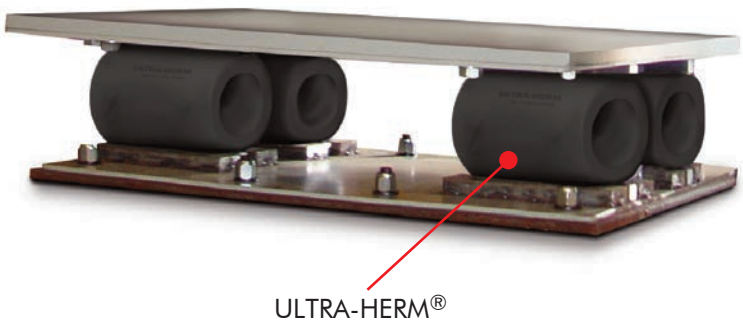
	Wire Rope Isolator (lbs/in.)	ULTRA-HERM® (lbs/in.)
Ks (shock)	220	740*
Kv (vibration)	250	1,200*

*Note: Dependent on product configuration, provided for reference only.

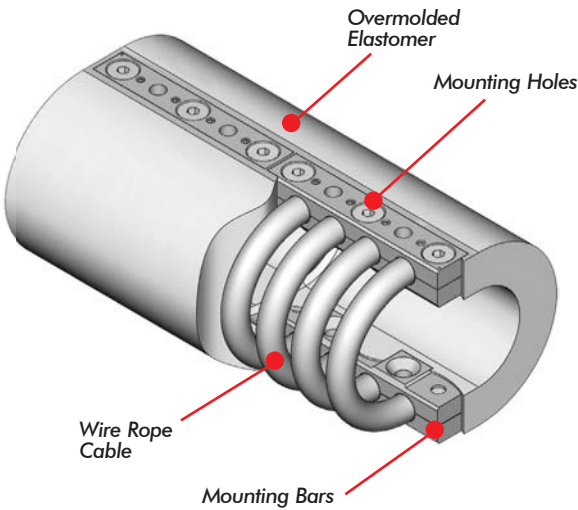
Damping Comparison



ULTRA-HERM® Mounting Example



ULTRA-HERM® Components



Enidine

7 Centre Drive
Orchard Park, New York 14127 • USA
Phone: 716-662-1900
Fax: 716-667-1909
www.enidine.com

