

Voltoid®

HP-450

Designed to provide superior
flame barrier properties and
dimensional stability at
elevated temperatures



APPLICATIONS

Appliances:

Accessibility, flame and moisture barrier. Splash and motor shields.

Transformers:

Thermal and electrical enclosures for high wattage power supplies and circuits.

Generators

Magnetic Resonance Imaging (MRI) Machines:

Thermal and acoustical barrier.

Incandescent Fixtures:

Thermal and flame barrier.

High Intensity Discharge (HID) Lighting Fixtures:

Accessibility barrier and ballast enclosure.

Electric Motors:

End laminates, wedges, slot liners.

Electronics:

High wattage power supplies. Data processing circuits.

InterFace
Solutions

Technically Reliable, Cost-Effective Solutions
Available through: Accurate Felt & Gasket
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Voltoid® HP-450 is a high density composite consisting of aramid fiber, filler and polymeric binders. It is designed to provide superior flame barrier properties and dimensional stability at elevated temperatures. It features low water absorption and has outstanding electrical and mechanical properties intermediate to ceramic fiber and aramid fiber materials. Voltoid HP-450 accepts varnish better than most aramid papers. Voltoid HP-450 sheet is available in gauges from 0.015" to 0.125" without being laminated.

Voltoid Typical Data Structural/Electrical Insulation Materials

		Tensile Strength, min (g/cc)	Tensile Strength, MD (psi)	UL 94 Flame Class	Relative Temp Index, Electrical (°C)	Relative Temp Index, Mechanical (°C)	Dielectric Strength Short Term (V/mil)	Thickness	Sheet	Roll	
D-800	High phenolic resin content for mechanical strength and rigidity. Used for support of current carrying components.	1.05	12,000	8,000	HB	105	105	270	0.031" 0.045" 0.062" 0.093" 0.125"	X	
Flame Retardant Materials											
D-100	Widely used in appliances for its economical combination of properties, including UL 94 V-O	1.10	12,000	7,000	V-0	90	90	200	0.031" 0.062" 0.093" 0.125"	X	
D-225	Superior electrical performance and flame retardance in a competitively priced barrier material.	1.10	11,000	7,000	V-0	90	90	225	0.015" 0.020" 0.031" 0.062"	X	
S-350	Cost-effective flame retardant sheet, suitable for flat and some formed parts.	0.95	9,000	4,000	V-0	90	90	170	0.020" 0.031" 0.045" 0.062" 0.125"	X	
V-090	A medium density material used primarily as a flexible composite electrical insulator.	1.04	1,500	1,150	5VA	50	50	120	0.015" 0.031"		X
HP-450	A sheet-based material designed to provide superior flame barrier properties and dimensional stability at elevated temperatures.	1.55	4,500	3,500	5VA	180°	N/A	350	0.015" 0.031" 0.045" 0.062" 0.125"	X	

- Notes:
- Typical values are based on 0.031" product.
 - Dielectric strength determined according to ASTM D 149, short term method, using type I electrodes.
 - Independent laboratory tests on motorette systems have indicated that Voltoid HP-450 is capable of 180°C upper use temperatures.

Please understand that you are responsible for the accuracy of all project specifications, including any Interface Solutions guide specifications that you use. Interface Solutions shall not be liable for any damages arising out of the use of any of its guide specifications.



www.afgco.com

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