
High Performance Filter Media

for severe sampling applications

Application:

Many sample draw gas sampling applications originate in an extremely hostile environment with high temperatures and corrosive samples, saturated with water or loaded with particulate. Any combination of the above conditions can make sample extraction and treatment difficult. Because of the complications that arise when sampling in an adverse environment, MSA has developed a solution. A highly efficient, pre-filter to be used at the sample take-off point, can withstand the most severe environments and will not react with the sample.

Solution:

Used in conjunction with a metal sample probe, the effectiveness of the filter media in trapping particulate and blocking liquid water, without being attacked by the corrosive gas stream, is unique to this material. Its resistance to temperature extremes is exceptional and is perfect for extending the service life of expensive porous metal probes. This has been utilized in medical waste incinerator applications, with elevated acid gas levels combined with excessively high water content. Furthermore, it has proven successful when used in the waste water treatment industry with the characteristic combination of corrosive gases and swirl and in solvent vapor-laden exhaust ducts.

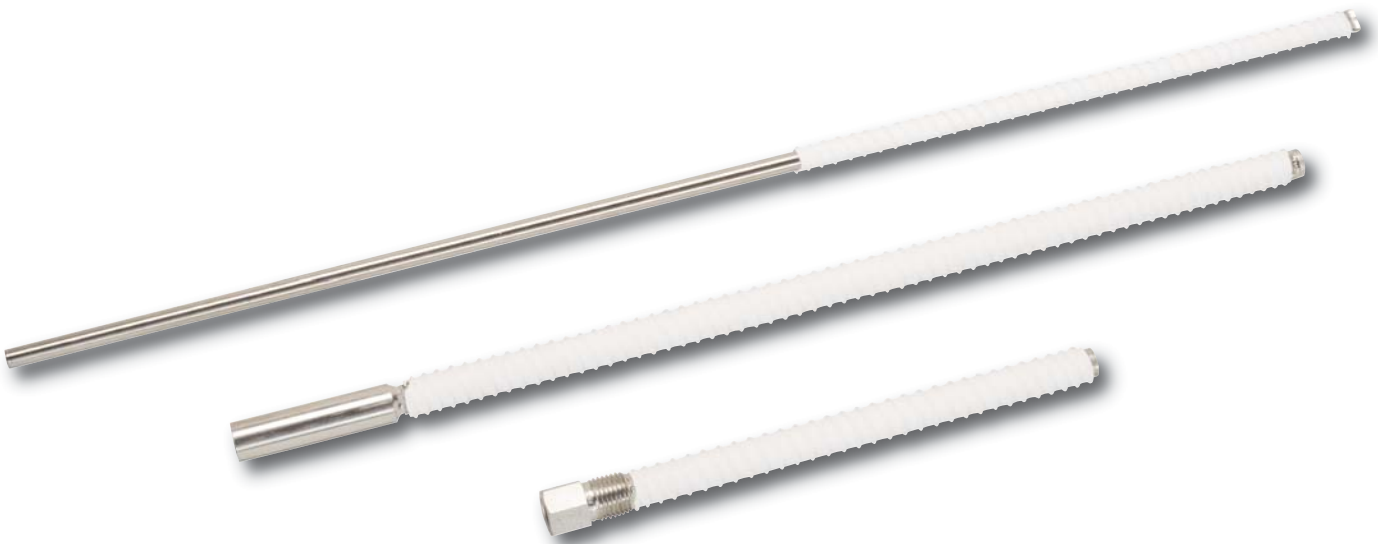
Properties of HP Filter Media

Physical

Thermal Conductivity (cal / sec · cm · °C)	6 x 10 ⁻⁴
Thermal Expansion (% / °C)	10 x 10 ⁻⁵
Continuous Use Temperature	290°C
Low Temperature Limit	- 200°C
Flammability	Non-Flammable
Porosity	25 – 45µ

Environmental

Resistance to:	
Cold Flow	Excellent
UV Radiation	Excellent
Nuclear Radiation	Poor
Electrical-Mechanical Stress Cracking	Excellent
Chemical-Mechanical Stress Cracking	Excellent
Abrasion	Good
Fungus	Excellent
Chemicals	Excellent



Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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Corporate Center
 1000 Cranberry Woods Drive,
 Cranberry Township, PA 16066 USA
 Phone 724-776-8600
www.MSAnet.com

U.S. Customer Service Center
 Phone 1-800-MSA-INST
 Fax 1-800-967-0398

MSA Canada
 Phone 1-800-MSA-INST
 Fax 1-800-967-0398

MSA Mexico
 Phone 01 800 672 7222
 Fax 52-44 2227 3943

MSA International
 Phone 724-776-8626
 Toll Free: 1-800-672-7777
 FAX 724-741-1559

Offices and representatives worldwide
 For further information:

