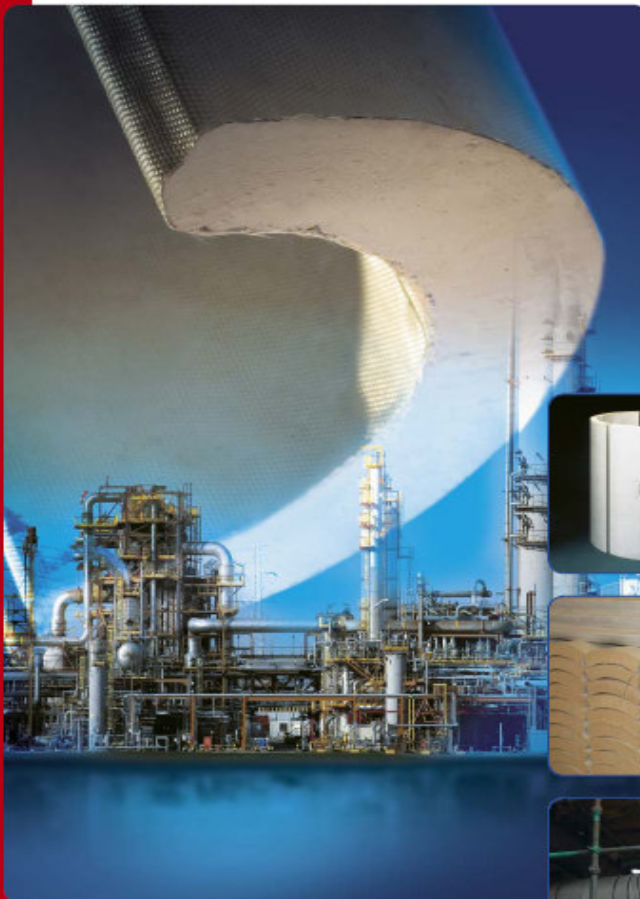




PASSIVE FIRE PROTECTION MATERIALS



Microtherm® Moulded Pipe Sections (MPS)
Preformed high temperature insulation for pipes.



Microtherm® Moulded Pipe Sections (MPS) are preformed pieces of pipe insulation designed to provide a thermally efficient insulation system for piping of all sizes from 25 mm (1") upwards. Formulation based on pyrogenic silica with a mineral oxide opacifier and E-glass filament reinforcement.

Properties

- Microporous insulation offering the lowest theoretically possible thermal conductivity for continuous operation at temperatures up to 1000 °C (1832 °F)
- Precision moulded pipe insulation sections
 - Can be applied in multi layer systems
 - Non combustible
 - Environmentally friendly
 - Free of harmful respirable fibres.



Typical applications

- All pipeline applications
- Round ducting applications
- Passive fire protection to piping systems.



Microtherm is a world leader for thermal insulation solutions • info@microthermgroup.com • www.microthermgroup.com

©2009 Donovan Marine, Inc. All Rights Reserved.

Product specifications and other information have either been provided by our Vendors or collected from publicly available sources. While Donovan Marine, Inc. makes every effort to ensure that the information contained in this document is accurate, we can make no representations or warranties as to the accuracy or reliability of any information provided. Donovan Marine, Inc. makes no warranties or representations whatsoever with regard to any product provided or offered by any Vendor, and you acknowledge that any reliance on representations and warranties provided by any Vendor shall be at your own risk.



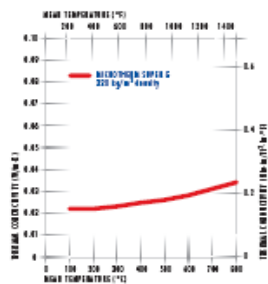
PASSIVE FIRE PROTECTION MATERIALS



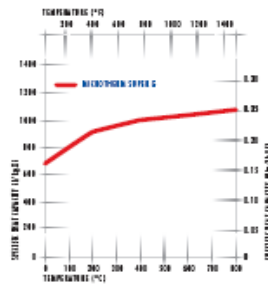
Microtherm® Moulded Pipe Sections (MPS)

TYPICAL PRODUCT CHARACTERISTICS

Thermal Conductivity



Specific Heat Capacity



Size Availability

Nominal thickness 25 mm (1"). Nominal length 500 mm (20").
To suit standard pipe diameters from 25 mm (1") up to 711 mm (28").
Non standard diameters can also be accommodated.

Performance

Maximum temperature limits Microtherm® Super G - 1000 °C (1832 °F) for long term exposure.
Thermal conductivity (ISO 8302, ASTM C177) - Microtherm® Super G @ 320 kg/m³
0.0221 W/m.K at 100 °C mean
0.0222 W/m.K at 200 °C mean
0.0230 W/m.K at 300 °C mean
0.0244 W/m.K at 400 °C mean
0.0260 W/m.K at 500 °C mean
0.0281 W/m.K at 600 °C mean
0.0343 W/m.K at 800 °C mean

Specific heat capacity

680 J/kg.K at 0 °C
920 J/kg.K at 200 °C
1000 J/kg.K at 400 °C
1040 J/kg.K at 600 °C
1080 J/kg.K at 800 °C

Compressive Modulus (ASTM C 165) @ 350 kg/m³ density - 4.4 MPa

Resistance at 10% deformation (ASTM C 165) @ 350 kg/m³ density - 0.42 MPa

Density

Nominally 320 - 350 kg/m³.

Standard finish styles available

Moulding covered with woven E glass cloth.

Typical Values

Performance values quoted here are for general guidance.

For more precise information and assistance with design please contact our materials specialists.

The information contained in this datasheet/brochure is intended to assist in designing with Microtherm products. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on this datasheet will be achieved by a user for a particular purpose. The user is responsible for determining the suitability of Microtherm products for each application. No known health hazards in normal use.

www.microthermgroup.com

Issue ref. 090207/01

Microtherm NV - Belgium, Industriepark Noord 1, BE-9100 Sint-Niklaas, T+32 (0)3 760 19 80, F+32 (0)3 760 19 89, info@microthermgroup.com, BTW BE-0407.566.878 - RPR Sint-Niklaas
Microtherm Inc - U.S.A., 249 Cusick Road, McGhee Tyson Plaza, Suite C4, Alcoa, Tennessee 37701, T+1 865 681 0155, F+1 865 681 0016, sales@microtherm.us
Nippon Microtherm Co. Ltd. - Japan, Korokawa Shinjuku Bldg, 4-15-7, Nishi-Shinjuku, Shinjuku-ku, Tokyo 160-0023, T+81 3 3377 2821, F+81 3 3378 2821, sales@microtherm.co.jp
Microtherm is a registered trademark of Microtherm (GB) Ltd. • BTW BE 0407.566.878 - RPR Sint-Niklaas

©2009 Donovan Marine, Inc. All Rights Reserved.

Product specifications and other information have either been provided by our Vendors or collected from publicly available sources. While Donovan Marine, Inc. makes every effort to ensure that the information contained in this document is accurate, we can make no representations or warranties as to the accuracy or reliability of any information provided. Donovan Marine, Inc. makes no warranties or representations whatsoever with regard to any product provided or offered by any Vendor, and you acknowledge that any reliance on representations and warranties provided by any Vendor shall be at your own risk.



Office 207-371-1606 Toll Free Fax 800-741-4338

www.yachtacoustics.com

info@nvtllc.com