

Phenolic Foam Insulation

The high closed cell content of our Phenolic insulation gives a very high resistance to moisture penetration, with the option of aluminium foil. The thermal efficiency reduces the necessary thickness requirement, providing a low K value, saving energy and CO₂ emissions. Our Phenolic range benefits from low flame spread, low smoke emission and gives off virtually no toxic fumes.

Standards Include: BS4370, BS476 Part 6 and Part 7—Results conform to Class O of the UK Building Regulations, Epiradiateur—M1, ASTM E84 25/50 Flame & Smoke—up to 3 inches thick, NEN 6065/6066—Klasse 1/2 and DIN4102—B1



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	PHEN40	PHEN60	PHEN80	PHEN120	PHEN160
Nominal Density (m³):	40 kg/m ³ ±3	60 kg/m ³ ±3	80 kg/m ³ ±4	120 kg/m ³ ±6	160 kg/m ³ ±8
ODP	0	0	0	0	0
Thermal Conductivity	0.021 W/m.K ±0.002	0.024 W/m.K ±0.002	0.030 W/m.K ±0.002	0.032 W/m.K ±0.002	0.038 W/m.K ±0.002
Temperature Limits	-180°C to +120°C	-180°C to +120°C	-180°C to +120°C	-180°C to +120°C	-180°C to +120°C
Compressive Strength - Parallel to rise - Perpendicular to rise	180kPa ± 40 140kPa ± 40	400kPa ± 50 300kPa ± 50	650kPa ± 50 500kPa ± 50	1150kPa ± 50 800kPa ± 50	2000kPa ± 100 1500kPa ± 100
Tensile Strength - Parallel to rise - Perpendicular to rise	180kPa ± 40 140kPa ± 40	380kPa ± 50 300kPa ± 50	600kPa ± 50 450kPa ± 50	900kPa ± 50 700kPa ± 50	1100kPa ± 100 900kPa ± 100
Closed Cell Content	Minimum 95%	Minimum 95%	Minimum 95%	Minimum 95%	Minimum 95%

Product Information

Standard Length	1000mm
Minimum Pipe Section O/D	15mm
Maximum Pipe Section O/D (R+B Lags supplied for sizes above)	324mm
Standard Thicknesses (Double & Triple layers also available)	15, 20, 25, 30, 35, 40, 50
Standard Packaging	Export Carton, shrink wrapped to pallet
Storage	A warm dry atmosphere, clear of ground

Product Range

- Flat Slab
- Pipe Section
- Radiused & Bevelled Lags
- Bends & Elbows
- Pipe Supports
- Dome End Segments
- Segments for Knuckles
- Flanges
- Valves
- Reducers
- Tees

Factory Applied Finishes

- Dust Suppression
- VentureClad Covered
- Foil Backed
- Polyester Laminate Backed

Contact Details

Insulation & Buoyancy Services Ltd

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Seaton Delaval, Northumberland,
NE25 0QT, England.

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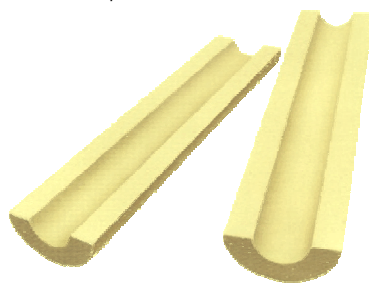
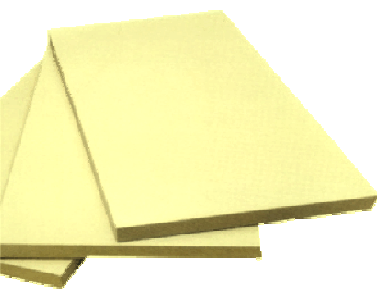
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Physical & Chemical Properties

Form (20°C)	Solid Foam
Colour	Various
Odour	None
Smoke Emission	NEN 3883
Solubility in water	Non Soluble
Solubility in Organics	Some organic liquids may cause swelling
Viscosity (20°C)	Not Applicable

Hazard Identification	Not Classified as dangerous according to EEC regulations.
Fire Fighting Measures	Extinguishing media: All available media allowed. Combustion products: Carbon monoxide, HCN and possible other toxic gases. Fire Fighting Protective Measures: Suitable respiratory protection with positive air supply.
First Aid Measures	Inhalation: N/A Skin Contact: N/A Eye Contact: Immediately rinse with fresh water for at least 15 minutes. Obtain medical attention if irritation appears.
Handling & Storage	Handling: Normal industrial standards. Storage: Do not store in direct sunlight.
Exposure Controls & Personal Protection	Recommended maximum expose: 10 mg/m ³ Ensure adequate ventilation. Wear suitable respiratory equipment when dust is generated. (According to EN149 : FFP1 or FFP2).
Stability & Reactivity	The product is stable. Hazardous thermal decomposition products: not likely under normal industrial use.
Toxicology Information	No toxicology information data are available for this and similar products.
Ecological Effects	Under normal industrial use it is not likely that this product acts as a environmental pollutant.
Disposal Considerations	Disposal should be in accordance with local authorities.
Transport Information	Not listed as a hazardous substance (ADR/RID, IMDG, IATA).
Regulatory Information	None

Other Information

It is recommended that the information mentioned in this form should be passed on to customers or users.

The information contained herein is given in good faith and to the best of our knowledge but no warranty, expressed or implied, is made.

Product Benefits

- Dimensionally Stable
- Closed cell Structure & excellent moisture resistance
- Lightweight, Strong & Rigid
- Resistant to many chemical solvents and oil
- Low thermal conductivity
- Non Fibrous
- Low flame spread
- Low smoke Emission



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