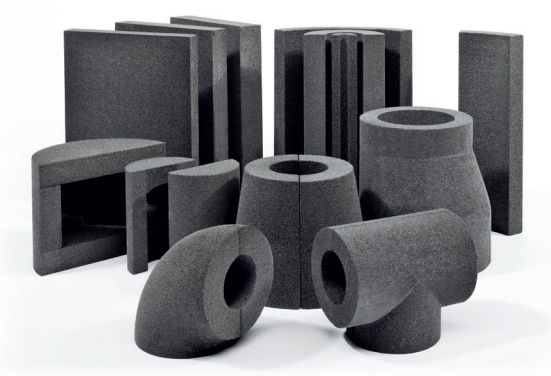




FOAMGLAS® ONE™ INSULATION

INDUSTRIAL PIPE & EQUIPMENT INSULATION IN ACCORDANCE WITH EN 14305

FOAMGLAS® ONE™ insulation is a lightweight, rigid material composed of millions of completely sealed glass cells. It is manufactured by Owens Corning in a block form and then fabricated into a wide range of shapes and sizes to satisfy industrial and commercial insulation requirements.



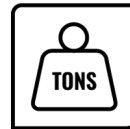
Features



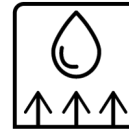
Noncombustible



Impermeable to water and vapor



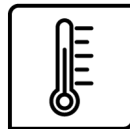
High compressive strength



Nonabsorbent



Corrosion/chemical resistant



Constant insulating efficiency



Easy to work with



Vermin resistant



Long term dimensional stability



Ecological

Applications

- Cryogenic systems
- Low-temperature pipe, equipment, tanks and vessels
- Medium- and high-temperature pipes and equipment
- Hot oil and hot asphalt storage tanks
- Heat transfer fluid systems
- Hydrocarbon processing systems
- Chemical processing systems
- Steam and chilled water piping
- Commercial piping and ductwork
- Direct burial/underground

Formats & Dimensions

For detailed information on available formats, dimensions and details of delivery, please refer to our 'Prefabricated and preassembled product range' brochure - available on www.foamglas.com or contact your regional FOAMGLAS® insulation sales contact for more information.

General Product Characteristics

PROPERTY	TEST METHOD	VALUE
Composition	–	Soda-lime glass. Inorganic. No fibers or binders.
Capillarity	–	Zero
Hygroscopicity	–	Zero
Specific Heat	EN ISO 10456	1000 J/(kg·K)

Physical and Thermal Characteristics in Accordance with EN 14305¹

PROPERTY	TEST METHOD	DECLARED VALUE
Thermal Conductivity	EN ISO 13787	Refer to table down below
Length	EN 13467	600 mm ± 2 mm (other lengths following order)
Squareness	EN 13467	± 3 mm
Inside Diameter	EN 13467	± 2 mm
Pipe Section Linearity	EN 13467	± 2 mm
Density (±15%)	EN 1602	115 kg/m ³
Service Temperature	EN 14707	-265 to +430 °C
Combustibility	EN 13501-1	Euroclass A1, Non-combustible
Reaction to fire with external coating	EN 13501-1	Refer to respective DoP sheets for coated products
Compressive Strength	EN 826 Annexe A ²	CS > 600 kPa
Bending Strength	EN 12089 ²	BS ≥ 450 kPa
Point Load	EN 12430 ²	PL ≤ 1.5 mm
Tensile perpendicular to faces strength	EN 1607 ²	TR ≥ 150 kPa
Compressive Creep	EN 1606 ²	CC (1.5/1/50) ≥ 225 kPa
Water Vapor Resistance	EN ISO 10456	μ = ∞
Water Absorption	EN 1609	< 0.5 kg/m ²
Trace quantities of water soluble chloride	EN 13468	CL ≤ 2 mg/kg
Coefficient of Linear Thermal Expansion	EN 13471	Above ambient temperatures : +25 to +300 °C: 9.0 x 10 ⁻⁶ /K Cryogenic temperatures: -170 to +25 °C: 6.6 x 10 ⁻⁶ /K

Thermal Conductivity (λ) Values at Select Mean Temperatures (EN ISO 13787)³

TEMPERATURE	°C	-180	-150	-120	-80	-40	0	+40	+80	+120	+180	+240	+300
THERMAL CONDUCTIVITY (λ) SEGMENTS & OTHER FABRICATED WARE	W/(m·K)	0.020	0.022	0.025	0.029	0.034	0.040	0.046	0.054	0.061	0.075	0.090	0.107
THERMAL CONDUCTIVITY (λ) PIPE SECTIONS AND ELBOWS	W/(m·K)	0.021	0.024	0.027	0.031	0.037	0.043	0.050	0.057	0.067	0.083	0.103	0.128

¹ CE-marking ensures conformity with the mandatory essential requirements of CPR as mentioned in EN 14305; within the CEN Keymark certification all mentioned characteristics are certified by an empowered, notified and accredited 3rd party.

² Characteristics determined on flat products from which the prefabricated ware has been sawed or abraded.

³ The values were determined by evaluating a polynomial at the insulation mean temperature. Contact Owens Corning for assistance applying our design polynomials to your application.

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