

# FOAMGLAS®

## S3

### PRODUCT CHARACTERISTICS

<b>COMPOSITION</b>	Alumino-silicated cellular glass with a specially elaborated composition; totally inorganic; contains no binders
<b>TEMPERATURE LIMITS</b>	From -260°C to + 430°C
<b>SOFTENING POINT</b>	Glass softening point : about 730°C
<b>WATER ABSORPTION</b>	Zero, except for some temporary water retention on the surface
<b>HYGROSCOPICITY</b>	Zero
<b>PERMEABILITY</b>	Zero
<b>RESISTANCE TO WATER VAPOUR TRANSMISSION</b>	$\mu = \infty$
<b>CAPILLARITY</b>	Zero
<b>RESISTANCE TO ACIDS</b>	Impervious to common acids and their fumes
<b>COMBUSTIBILITY</b>	Non combustible
<b>DIMENSIONAL STABILITY</b>	Perfect
<b>AIRBORNE SOUND TRANSMISSION LOSS (AVERAGE AT NORMAL FREQUENCY)</b>	28 dB for a 10 cm thickness

## FOAMGLAS® S3

**Produced for use where compressive strength is the prime requirement.**


Length	Width	Thickness
300	450	40, 50
600	450	40, 50, 60, 80, 90, 100, 120, 140, 160

Metric sizes in mm

Other thicknesses are available on special request

	M	SI
SPECIFIC WEIGHT (+/- 10% tolerance)	135 kg/m <sup>3</sup>	135 kg/m <sup>3</sup>
THERMAL CONDUCTIVITY AT 0°C (± 5%) AT + 10°C (± 5%)	0.0380 kcal/mh°C 0.0397 kcal/mh°C	0.044 W/(m.K) 0.046 W/(m.K)
COMPRESSIVE STRENGTH (1) (average at break point)	9 kg/cm <sup>2</sup>	900 kPa
FLEXURAL STRENGTH	5 kg/cm <sup>2</sup>	500 kPa
FLEXURAL MODULUS OF ELASTICITY	12000 kg/cm <sup>2</sup>	1200 Mpa
COEFFICIENT OF THERMAL EXPANSION	9 x 10 <sup>-6</sup> /°C	9 x 10 <sup>-6</sup> K <sup>-1</sup>
SPECIFIC HEAT	0.20 kcal/kg°C	0.84 kJ/(kg.K)
THERMAL DIFFUSIVITY AT 0°C	4.2 x 10 <sup>-3</sup> cm <sup>2</sup> /sec	4.2 x 10 <sup>-7</sup> m <sup>2</sup> /sec

(1) The engineering office will choose the safety factor relevant for the application : 3 is a frequently adopted value.  
When not specified, FOAMGLAS® properties are given at ambient temperature and correspond to ASTM test methods N° C165, C203, C240-91, C303, C518, E96, E136 and ISO 8302. For the insulation of applications in which high loads are involved, as for instance tank bases, please refer to the latest issue of specification i22 - FOAMGLAS® HLB being the only recommended cellular glass for the insulation of liquefied gas tank bases.

 <p>The innovative insulation people</p>	Pittsburgh Corning GmbH (Austria)	Pittsburgh Corning Nederland B.V.	Pittsburgh Corning Schweiz A.G.	FOAMGLAS® Península Ibérica	Pittsburgh Corning Scandinavia ab.
	Deutsche Pittsburgh Corning GmbH	Pittsburgh Corning UK Ltd.	Pittsburgh Corning Norway	Pittsburgh Corning Italy	Pittsburgh Corning France S.A.
Pittsburgh Corning Europe is also represented in: Croatia, Czech Republic, Denmark, Greece, Hungary, Poland, Rumania, Russian Federation, Slovak Republic, Slovenia, Ukraine and Africa.					