

**GMS65**  
The uncompromisingly  
climate-friendly  
Mineral Foam  
Insulation  
from Miralis

# GMS65 Miralis Mineral Foam Insulation

## ECOLOGICALLY EXPEDIENT, ECONOMICALLY EFFICIENT

Miralis Mineral Foam Insulation is an economical and environmentally friendly alternative to synthetic insulation materials and is based on an innovative cement matrix. It is manufactured in-house at your premises and integrated directly into your product. Thanks to our many years of expertise in industrial production, we facilitate reliable, efficient and economical insulation.

### TECHNICAL DATA

Parameters	Description / measured value	Standard / source
1 Insulation performance	Lambda $\lambda_b$ = 0,035 - 0,039 W/mK <sup>1</sup>	DIN 4108-4
2 Fire characteristics	Non-flammable, class A1 <sup>2</sup>	DIN EN 13501-1
3 Carbon footprint	57 kg CO <sub>2</sub> /m <sup>3</sup> <sup>3</sup>	ISO 14067:2018
4 Density	65 kg/m <sup>3</sup> <sup>4</sup>	DIN EN 1602
5 Fully recyclable	Yes <sup>5</sup>	Technological assessment
6 Compressive strength	65 kPA	EN 826
7 Composition	Mineral	
8 Vapour diffusion resistance $\mu$	5,52 <sup>6</sup>	EN 12086: 2013-04-15
9 Pore size, porosity	0,01 - 1,00 mm, 87-92% <sup>7</sup>	Upper Austria University of Applied Science Research & Development
10 Pest and mould resistant	Yes	
11 Insertion rate per hour	7 m <sup>3</sup>	
12 Solidification time (20°C)	45 min. (precast concrete element)	

1 BTI Bautechnisches Institut GmbH [Institute of building technology]  
2 IBS GmbH [Institute for fire protection technology and safety research]  
3 ClimatePartner Austria GmbH  
4 BTI Bautechnisches Institut GmbH [Institute of building technology]  
5 Technical University of Leoben  
6 BTI Bautechnisches Institut GmbH [Institute of building technology]  
7 Upper Austria University of Applied Science

### A CLEAR ADVANTAGE WITH MIRALIS

- / Easy to fill, flexibly scalable
- / Breathable (permeable)
- / Sound-absorbent
- / Low production waste
- / Small storage area: only 1 m<sup>3</sup> storage area for 15 m<sup>3</sup> of finished insulation
- / Fast application: approx. 7 m<sup>3</sup> per hour
- / Further processing after 45 minutes

#### Areas of application



Precast concrete parts



Clay bricks



Lightweight concrete blocks



#### THE SHORT TRACK TO SUSTAINABLE INSULATION

Miralis Mineral Foam Insulation is produced where it makes the most sense: directly in your factory. This not only saves long journeys and complicated logistics, but also large production areas. Our mobile production system requires only the space of a standardised container.

### OUTSTANDING FEATURES



High thermal insulation performance



Non-flammable, A1



Low CO<sub>2</sub>-equivalent



100% recyclable

#### THE SUSTAINABLE INSULATION SOLUTION

Miralis GMS65 mineral foam emits around 64% less CO<sub>2</sub>\* than rock wool and is 100% recyclable. The Mineral Foam Insulation can be shredded with the entire wall system in the recycling process. The shredded material can then be reused in the cement and concrete industry.

\*PCF/EPD: CO<sub>2</sub> eq. comparison of Miralis Mineral Foam Insulation foam and rock wool.

The insulation material with  
*up to 64% less CO<sub>2</sub> emissions\**  
and 100% recyclability.



# We shape the future

**Properties:**

- / 100% mineral-based
- / Recyclable
- / Durable and sustainable
- / Easy to fill
- / For industrial use
- / Breathable
- / Resource-saving
- / Efficiency-enhancing
- / Global



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