

Aerogel Foam Concrete is a composite inorganic insulation material that brings together the advantages of foam concrete in terms of workability and sustainability (low embodied energy) with the thermal insulation capacity of the aerogels. The material is suitable for application in lightweight sandwich facade elements for new buildings and renovation and for indoor partition walls. The material is developed by **Aercrete Technology AB** in collaboration with **Svenska Aerogel AB**.

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Name of product		Aerogel Foam Concrete		
Function of product		Insulation		
Form		Bulk material (fluid/solid)		
Raw Material		Aerogel, cement, water and surfactant		
		Properties		
Property	Unit	Value	Test methods/standardisation	
		/physical prop		
Bulk density	kg/m ³	200	Wet density	
	Structur	es and constru	uction	
Dimensions of product			Customised dimensions	
	m			
	Mech	anical propert	ies	
Compressive strength	N/mm ²	0.25	EN 12390-3	
Stiffness	N/mm ²	5		
	,			
	The	rmal propertie	25	
Thermal conductivity	mW/(m⋅K)	30-35	EN 12667	
	Hygrot	hermal proper	rties	
Water vapour diffusion resistance factor				
Moisture buffer value	kg/(m ² ·%RH)			
Water vapour permeability	kg/(m·s·Pa)			
		ustic propertie		
Dynamic stiffness, s'	MN/m ³	500	ISO 9052-1	
		Fire Safety		
Reaction to fire		Incombustik	ale	
Resistance to fire	Minutes			
	Environ	mental prope	rties	
Embodied energy (% renewable)	MJ/kg			
Embodied energy (% renewable)	MJ/FU*		*FU= 1m ² of insulation material for R=1 m ² K/W	
GHG emissions	kg CO ₂ eq			
GHG emissions	kg CO ₂ eq/FU*	*	*FU= 1m ² of insulation material for R=1 m ² K/W	
TVOC (SVOC)	μg/m³			
Radon	Bq/m ³			
Photocatalytic capacity		1		