

ELIMINATING HEAT AND COLD.

إيزومج IZOME

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THE UNIQUE PROPERTIES OF IZOME BLACK INSULATION

THE DISTINCT CHARACTERISTICS OF IZOME BLACK INSULATION GIVE IT UNIQUE INSULATION PROPERTIES.

"IZOME BLACK INSULATION IS AN EXCEPTIONAL MATERIAL KNOWN FOR ITS STRENGTH, LIGHTWEIGHT NATURE, AND ECO-FRIENDLINESS. IT STANDS OUT FOR ITS ABILITY TO INSULATE AGAINST COLD, HEAT, AND SOUND, WHILE ALSO PROVIDING EXCELLENT RESISTANCE TO MOISTURE, FIRE, AND CHEMICALS. FURTHERMORE, ITS PEST-RESISTANT PROPERTIES MAKE IT IDEAL FOR A VARIETY OF APPLICATIONS, INCLUDING INSULATION FOR CONSTRUCTION AND INDUSTRIAL PROJECTS."



7- VAPOR RESISTANT

THE CLOSED GLASS CELL STRUCTURE OF IZOME BLACK INSULATION COMPLETELY BLOCKS MOISTURE, ENSURING IT CONSISTENTLY MAINTAINS HIGH THERMAL AND COLD INSULATION PERFORMANCE.

8- PRESSURE RESISTANT

IZOME BLACK INSULATION EXCEPTIONALLY RESISTS EXTERNAL FORCES, REMAINING COMPLETELY INTACT AND FULLY RETAINING ITS INSULATION PROPERTIES UNDER PRESSURE.

9- ECO-FRIENDLY

FREE FROM HARMFUL FLAME RETARDANTS AND TOXIC COMPONENTS, IZOME BLACK INSULATION IS SAFE FOR THE ENVIRONMENT AND CAN BE COMPLETELY RECYCLED INTO NEW MATERIALS AFTER YEARS OF USE.

1- WATERPROOFING

THANKS TO ITS GLASS COMPOSITION, IZOME BLACK INSULATION PROVIDES COMPLETE RESISTANCE TO MOISTURE AND WATER ABSORPTION.

2- ACID RESISTANCE

THANKS TO ITS GLASS COMPOSITION, IZOME BLACK INSULATION RESISTS CHEMICAL SOLVENTS, FULLY RETAINING ITS INTEGRITY AND INSULATION PROPERTIES.

3- DIMENSIONAL STABILITY

WITH NEAR-ZERO ELASTICITY, IZOME BLACK INSULATION MAINTAINS A CONSTANT SIZE, SIGNIFICANTLY REDUCING THE RISK OF CRACKS FORMING ON COATED SURFACES.

4- NON-FLAMMABLE

OPERATING BETWEEN -270°C AND 480°C , IZOME BLACK INSULATION DOES NOT IGNITE, PRODUCE FLAMES, OR EMIT TOXIC SMOKE, EFFECTIVELY STOPPING THE SPREAD OF FIRE AND PREVENTING FIRE DAMAGE.

5- PEST RESISTANT

MADE FROM INORGANIC GLASS, IZOME BLACK INSULATION PREVENTS RODENTS AND INSECTS FROM DAMAGING, INHABITING, OR THRIVING WITHIN IT.

6- EASY WORKABILITY

THANKS TO ITS THIN-WALLED GLASS CELLS, IZOME BLACK INSULATION IS EASY TO HANDLE AND CAN BE EFFORTLESSLY CUT TO ANY SIZE USING A SAW.

IZOME INSULATION

TECHNICAL SPECIFICATIONS

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VALUE	UNIT
Thermal Conductivity (10°C)	EN 12667:2001	0.038	W/(m·K)
Thermal Conductivity (-73°C)	EN 12667:2001	0.031	W/(m·K)
Thermal Conductivity (-165°C)	EN 12667:2001	0.023	W/(m·K)
Density	EN 823:2013	122	kg/m³
Compressive Strength	EN 8261996:	1060	kPa
Bending Strength	EN 12089:2013	647	kPa
Short Term Water Absorption	EN ISO 29767:2019	0.07	kg/m²
Reaction to Fire	EN 13501-1:2018	A1	Class
Dimensional Stability	EN 1604:2013	0.1	%
Maximum Service Temperature	EN 14706:2012	480	°C
Minimum Service Temperature	EN 14305:2009 Annex B	-175	°C
Sound Absorption Coefficient (NRC)	EN ISO 354:2003	0.10	

APPLICATIONS

- Building insulation (roofs, walls, floors)
- Industrial insulation (pipes, tanks, equipment)
- High-temperature applications
- Cryogenic installations
- Fire protection systems
- Acoustic insulation applications

HOW TO USE IZOME INSULATION

1 Clean the IZOME panels

Remove all dust and debris from the panels before installation.

2 Apply adhesive

Use IZOME cement adhesive for external/wet areas or IZOME gypsum adhesive for internal areas.

3 Cure the wall

Wet the wall with water before applying adhesive to ensure proper bonding.

4 Fix IZOME panels

Apply panels to the wall using the appropriate adhesive, ensuring even coverage.

5 Attach BRC galvanized steel mesh

Fix the mesh on top of IZOME with screws, leaving a 3 mm gap from the surface.

6 Plastering application

Apply plaster (gypsum or cement polymer modified) with half the thickness behind the mesh and half in front.

Important: Do not apply cement directly on IZOME panels. Always use the recommended adhesive and mesh system for proper installation.

