

KIMMCO

means insulation!

KIMMCO Marine Insulation (KMI)



www.kimmcoinsulation.com

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MANUFACTURED
UNDER LICENSE OF

ISOVER
SAINT-GOBAIN

KIMMCO Marine Insulation (KMI)

APPLICATIONS

For thermal and / or acoustic insulation.

DESCRIPTION

KIMMCO Marine Insulation is manufactured from stable glass fibers bonded with thermosetting resins. They are light in weight, strong, resilient and easy to handle.

Standard Dimensions

Thickness(mm)	Width(m)	Length(m)
25	0.4,0.6,1.0,1.2	10 to 45 according to the thickness & density
40	"	
50	"	
75	"	
100	"	
150	"	
200	"	

Non-standard sizes may be available on request.
Thickness depends upon density.

Nominal Density

KMI	kg/m ³	Lbs/ft ³
10	10	0.625
12	12	0.750
16	16	1
18	18	1.125
20	20	1.250
24	24	1.5
32	32	2
36	36	2.25
48	48	3

NON TOXIC

KIMMCO Marine Insulation is not hazardous to health. (See KIMMCO MSDS)

Acoustic Performance

ASTM C423 - Mounting A as per ASTM E795

Product Type	Thickness	Absorption Coefficient of one-third octave frequencies Hz						
		125	250	500	1000	2000	4000	NRC
KMI 12	25	0.10	0.27	0.45	0.61	0.80	0.60	0.55
	50	0.20	0.52	0.71	0.88	0.85	0.80	0.75
	100	0.60	0.95	1.05	1.08	1.08	1.06	1.05
KMI 16	25	0.06	0.19	0.39	0.70	0.81	0.64	0.55
	50	0.20	0.51	0.72	0.89	0.88	0.88	0.80
	75	0.30	0.80	0.98	0.95	0.95	0.95	0.90
KMI 24	25	0.09	0.30	0.59	0.80	0.90	0.91	0.65
	50	0.22	0.57	0.97	1.00	0.98	1.00	0.90
KMI 32	25	0.05	0.32	0.80	0.90	0.97	0.90	0.75
	50	0.30	0.86	1.27	1.11	1.06	1.05	1.05
KMI 36	25	0.03	0.28	0.78	0.88	0.94	0.87	0.70
	50	0.27	0.81	1.15	1.06	1.00	1.03	1.00
KMI 48	25	0.03	0.28	0.71	0.90	0.94	0.89	0.70
	50	0.16	0.78	1.09	1.12	1.03	1.05	1.00

PERFORMANCE

Working Temperature – 230 °C

Permanence

Dimensionally stable under varying conditions of temperature and humidity, rot proof, odourless, non-hygroscopic and will not sustain vermin or fungus. Longer life due to no sag and settling.

CONFORMITY TO STANDARDS

KIMMCO Marine Insulation comply with the following standards:

American Standards

ASTM C167, 168, 177, 423, 518, 653, 665 § 13.8 & 13.9, 686, 991, 1045, 1101/1101M, 1104/1104M, 1136 (types 1&2), 1335; E 84, 96, 136, 336, 795

UL723

F.S. HH-B-100B (Type 1), HH-I-521F, HH-I-558B
NFPA 255

NAIMA Standards

ASHARE 90.1 requirements

British Standards

BS 476 (parts 4, 6 & 7), 874, 2972, 3533, 6676 (part 1)

German Standards

DIN 18165, 52612

ISO

354, 8301, 8302, 9229, 9291

Fire Safety

Base fibre is non-combustible when tested in accordance with BS 476 (Part 4), ASTM E84, 136.

Flame spread : Not over 25

Smoke developed : Not over 50

Moisture Absorption

Less than 1% by volume when tested in accordance with BS 2972 or 6676, ASTM C1104. KIMMCO Marine Insulation do not absorb moisture from the ambient air nor water by capillary attraction. Only water under pressure can enter the insulation products, but that will quickly dry out owing to the material's open cell structure.

Thermal Conductivity

Thermal conductivity according to BS 874, ASTM C177, 518; ISO 8301, 8302 or DIN 52612 are described in tables below:

Mean Temperature	Thermal Conductivity in W/m.K for the following densities in kg/m ³								
°C	10	12	16	18	20	24	32	36	48
0	0.038	0.036	0.034	0.033	0.032	0.031	0.030	0.029	0.029
10	0.040	0.038	0.036	0.035	0.034	0.032	0.031	0.030	0.030
25	0.044	0.041	0.039	0.038	0.036	0.035	0.033	0.032	0.031
50	0.055	0.048	0.044	0.043	0.041	0.039	0.037	0.036	0.035
75	0.064	0.059	0.051	0.048	0.046	0.043	0.040	0.039	0.037
100	0.074	0.065	0.057	0.053	0.051	0.047	0.044	0.043	0.041

Thickness (mm)	Thermal Resistance (m ² .K/W) At 25°C Mean Temp								
	10	12	16	18	20	24	32	36	48
25	0.568	0.610	0.641	0.658	0.694	0.714	0.758	0.781	0.806
40	0.909	0.976	1.026	1.053	1.111	1.143	1.212	1.250	1.290
50	1.136	1.220	1.282	1.316	1.389	1.429	1.515	1.563	1.613
65	1.477	1.585	1.667	1.711	1.806	1.859	1.970	2.031	2.097
75	1.705	1.829	1.923	1.974	2.083	2.143	2.273	2.344	2.419
100	2.273	2.439	2.564	2.632	2.778	2.857	3.030	3.125	3.226
125	2.841	3.049	3.205	3.289	3.472	3.571	3.788	3.906	4.032
150	3.409	3.659	3.846	3.947	4.167	4.286	4.545	4.688	4.839

Mean Temperature	Thermal Conductivity in BTU.in/ft ² .h °F for the following densities in Lbs/ft ³								
°F	0.625	0.750	1	1.125	1.250	1.500	2	2.250	3
32	0.26	0.25	0.23	0.23	0.22	0.21	0.20	0.20	0.20
50	0.28	0.27	0.25	0.24	0.23	0.22	0.22	0.21	0.21
77	0.31	0.29	0.27	0.26	0.25	0.24	0.23	0.22	0.22
122	0.38	0.34	0.31	0.30	0.28	0.27	0.25	0.25	0.24
167	0.45	0.41	0.35	0.34	0.32	0.30	0.27	0.27	0.26
122	0.51	0.45	0.40	0.37	0.36	0.33	0.30	0.30	0.29

Thickness (inch)	Thermal Resistance (ft ² .h/Btu) at 77 °F Mean Temp.								
	10	12	16	18	20	24	32	36	48
1	3.226	3.448	3.704	3.846	4.000	4.167	4.371	4.507	4.653
1.5	4.839	5.172	5.556	5.769	6.000	6.250	6.556	6.761	6.979
2	6.452	6.897	7.407	7.692	8.000	8.333	8.742	9.015	9.306
3	9.677	10.345	11.111	11.538	12.000	12.500	13.113	13.522	13.958
4	12.903	13.793	14.815	15.385	16.000	16.667	17.483	18.030	18.611
5	16.129	17.241	18.519	19.231	20.000	20.833	21.854	22.537	23.264
6	19.355	20.690	22.222	23.077	24.000	25.000	26.225	27.045	27.917

These are typical values subject to normal manufacturing and testing

CERTIFICATION



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Commitment to Quality

Properties of KIMMCO Glasswool Products

- Excellent thermal performance
- Superior acoustic performance
- Excellent fire safety
- Environmentally friendly: made from abundantly available, non-strategic materials like sand and up to 80% recycled glass.
- Suitable for a wide variety of applications (flexible, semi-rigid, rigid and extra-rigid)
- Address a variety of performance requirements (wide range of facing materials)
- Easy to cut and install, minimum wastage on site
- Comparatively light weight
- Dimensionally stable
- No sagging or settling
- Complies with international standards

Our Commitment to Quality

Our Glasswool products are manufactured under license of Saint-Gobain ISOVER, a leading insulation provider headquartered in France.

Further, we have a strong commitment to quality, as recognized by our certification by international bodies such as ISO.

Our Commitment to the Environment

KIMMCO was selected as the sole insulation supplier and official collaborator with MASDAR city, the world's first zero-carbon, zero-waste city, in Abu Dhabi. We have a strong commitment to the environment, health and safety of our people, and surrounding communities, and actively collaborate with local and international environmental agencies.

Further, KIMMCO Glasswool products help developers achieve green building rating certifications such as LEED, Estidama and QSAS.

Further, we are members of the following industry associations:

- Emirates Green Building Council (EGBC)
- Qatar Green Building Council (QGBC)
- MASDAR (The Future Build)
- Middle East Minerwool Insulation Manufacturers Association (MEMIMA)

Our Product Listing & Certification

- CE
- UL
- BV
- ABS
- DCL (Dubai Central Laboratory)



KIMMCO

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Great Buildings Use Our Insulation Solutions



Enhanced Comfort through Thermal & Acoustic Insulation. Excellent Fire Protection.
Lower Energy Consumption. Environmentally Friendly.

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