

Glass wool insulation



Intek[®] UMI-1075

Intek[®] is a range of light weight high performance thermal and acoustic insulation products. Intek[®] emits virtually no smoke or incapacitating toxic biproducts when exposed to open flames. Intek[®] is lightweight, has a wide operating temperature range and can easily be removed for maintenance and then reused.

Intek[®] UMI-1075 glass wool insulation can be used on commercial as well as defense marine vessels, including the TYPE 45 Destroyer.

Intek[®] UMI-1075 glass wool insulation is a lightweight (12kgm³), water repellent, glass wool hull board, for use as a thermal and acoustic insulation for marine applications. The maximum performance temperature for un-faced products is 232 °C (450 °F).

Intek[®] UMI-1075 is manufactured using tightly controlled fibre diameter and density to insure consistent thermal and acoustic performance.

Benefits:

- Extremely lightweight - translating into fuel savings and efficiency
- Excellent fire and smoke resistance - very low smoke density and toxic gas emissions
- Acoustic and thermal insulation - exceptional acoustic absorption and thermal performance
- Easy installation - lightweight, easy to cut and fit, and readily adapt to fabrication with other materials

Applications:

- Hull and bulkhead
- Ceiling panels
- Hangar deck
- Beam and duct wrap

Certificates*

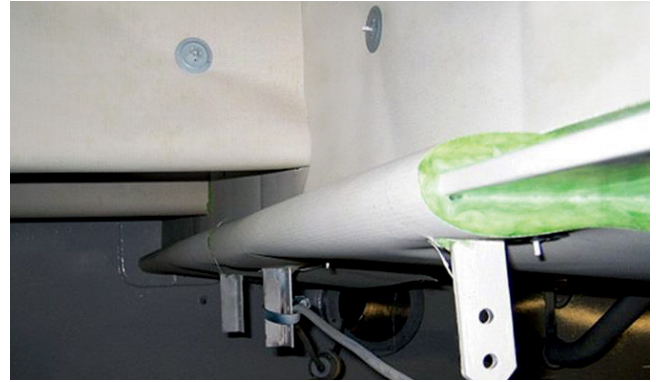
- Defence Standard 07-247 Smoke and Toxicity
- BS 476 Part 6 Fire Propagation
- BS 476 Part 7 Surface Spread of Flame
- ISO 4589 - 2 Oxygen Index
- Will also meet MIL-I-742F Class 1 and Class 11

Classified as A1 by UK MOD meaning can be used in unlimited quantities on specific vessels and platforms

*Intek® UMI-1075 may meet additional specifications that are not listed here. Please contact us to determine if it meets your specification, or other requirements.

Performance Facings

Intek® UMI-1075 is available faced with glass fibre cloth, perforated cloth and other specialty facings can be supplied.



Typical Technical Data

Properties	Test data
Density	12kgm ³
Non-combustibility test	IMO resolution msc. 61(67)
Smoke index	Def Stan 02-711
Oxygen index	BS en ISO 4589
Flammability temperature index	BS en ISO 4589-3
Elemental composition	Lassaigne sodium fusion
Toxicity index	Def Stan 020-713
Spread of flame	BS 476 part 7
Alkalinity	NES 802 part 3
Water absorption	BS 2972 section 11 partial immersion
Glass cloth puncture resistance	NES 802 part1 4.8a
Institute of naval medicine	No objections on health & safety
Thermal conductivity 0.038 w/mk @25mm thk	ASTM c 177-97
Compression set	Mil-1-742f sect 3.6 & 4.7.5.
Sound absorption hz	(Mil-1-23054)
25mm unfaced nrc 0.75	(dod-1-24688,ty ii, cl ii)
Inter laminate adhesion	Accordance with NES 802 section 4.7:2000

Density (un-faced)	Thickness	Length	Width
12KgM ³	1", 2" ±1/8"	36", 38", 48" ±1/4"	24" ±1/4"

Custom sizes are available on request.

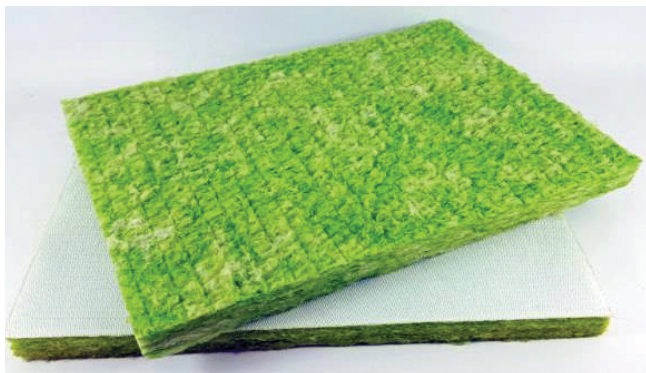
SOUND ABSORPTION COEFFICIENT ASTM C423-02 (Reverberation Room Method)

Frequency	Un-Faced		Perforated	
			Glass Fiber	Cloth Faced
HZ	1"	2"	1"	2"
125	0.06	0.15	0.08	0.3
250	0.15	0.42	0.29	0.78
500	0.73	1.2	0.75	1.28
1000	1	1.1	1.08	1.1
2000	1.07	1.05	0.97	0.99
4000	1.07	1.07	0.76	0.87
NRC	0.75	0.95	0.75	10.5

THERMAL PROPERTIES ASTM C177-97 (Guarded Hot Plate Apparatus)

Test	Units	Glass Fiber Cloth	Un-Faced
		1"	2"
Conductivity, k	Btu-in/hr-ft ² -°F	0.269	0.28
Resistivity, R	Hr-ft ² -°F/btu	3.719	6.973

The above are typical values subject to normal manufacturing variation.



Contact us

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