Intek® UMI-1075

Glass wool insulation

Intek® UMII-1075 glass wool insulation is a lightweight, water repellent, glass wool hull board, for use as a thermal and acoustical insulation for marine applications. The product manufactured with a patented controlled fiber diameter and density to insure consistent thermal and acoustic performance. Maximum performance temperature for un-faced products are 232˚C (450˚F). Specialty facings available to meet your performance and specification requirements.

Certificates*:

- DEF STAN 711
- DEF STAN 713
- MIL-I-742F
- MIL-I-22023D
- DOD-I-24688

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

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:

Intek® UMI-1075 glass wool insulation can be used on commercial as well as defense marine vessels, including the TYPE 45. Typical applications include:

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

Performance Facings

Intek® UMI-1075 is available faced with glass fiber cloth, perforated cloth, white Mylar film and other specialty facings as needed to meet performance requirements.

Typical Technical Data*

PROPERTIES	TEST DATA
Density	13kgm3
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	Lassiagne sodium fusion
Toxicity index	Def Stan 020-713
Spread of flame	BS 476 part 7
Alkalinity	NES 802 part3
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
13KgM³	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		White Mylar Film Faced	
HZ	**1"**	**2"**	**1"**	**2"**	**1"**	**2"**
125	0.06	0.15	0.08	0.3	0.11	0.23
250	0.15	0.42	0.29	0.78	0.22	0.72
500	0.73	1.2	0.75	1.28	0.87	1.17
1000	1	1.1	1.08	1.1	0.96	0.85
2000	1.07	1.05	0.97	0.99	0.49	0.68
4000	1.07	1.07	0.76	0.87	0.24	0.29
NRC	0.75	0.95	0.75	10.5	0.65	0.85

THERMAL PROPERTIES ASTM C177-97 (Guarded Hot Plate Apparatus)			
Test	**Units**	**Glass Fiber Cloth 1"**	**Un-Faced 2"**
Conductivity, k	Btu-in/hr-ft²-°F	0.269	0.28
Resistivity, R	Hr-ft²-°F/btu	3.719	6.973

*The above are typical values subject to normal manufacturing variation.

Contact Us

Trelleborg Applied Technologies delivers innovative and reliable solutions that maximize business performance to meet your needs. Our dedicated and highly skilled staff are always on hand to provide seamless process support from initial idea, through to delivery and beyond.

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