

Trelleborg Energy Control Products



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UMI 1075 INSULATION

Substantial weight saving over standard insulation materials

Improved Thermal & Acoustic performance over competitors

DESCRIPTION

Dowmarine - UMI1075 Marine Insulation is a light weight, water repellent, glass wool hull board, for use as a thermal and acoustical insulation in marine applications. The product is produced by a flame attenuation process incorporating a flame retardant, thermoset binder system.

CHARACTERISTICS

Dowmarine - UMI1075 Marine Insulation products are manufactured with a patented controlled fibre diameter and density to insure consistent thermal and acoustic performance.

Maximum performance temperature for unfaced products are 232°C (450°F).

PROPERTIES

Dowmarine - UMI1075 Marine Insulation products meet the performance requirements of:

MIL-I-742F
MIL-I-22023D
DOD-I-24688.

PACKAGING

Products are packaged in cardboard boxes identified with product code and description. Non standard packaging is available.

DOWMARINE FIBRE INSULATION UMI 1075-TEST DATA	
Density	13kgm 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	Lassagne 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) 13KgM ³	Thickness 1", 2" ±1/8"
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Length 38", 48" ±1/4"	Width 36", 24" ±1/4"
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Custom sizes are available on request

PERFORMANCE FACINGS

Dowmarine - UMI1075 Marine Insulation is available faced with glass fiber cloth, perforated cloth, white Mylar film and other specialty facings as needed to meet performance requirements.



Thermal Properties ASTM C177-97 (Guarded Hot Plate Apparatus)			
Test	Units	Glass Fiber Cloth Faced	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

Sound Absorption Coefficient ASTM C423-02 (Reverberation Room Method)						
Frequency	Un- Faced		Perforated		White Mylar	
			Glass Fiber Cloth		Film	
			Faced		Faced	
HZ	1"	2"	1"	2"	1"	2"
125	0.06	0.15	0.08	0.30	0.11	0.23
250	0.15	0.42	0.29	0.78	0.22	0.72
500	0.73	1.20	0.75	1.28	0.87	1.17
1000	1.00	1.10	1.08	1.10	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	10.50	0.65	0.85

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