AB Wool® Glasswool

FEATURES

AB Wool Insulation glasswool are lightweight, flexible and resilient, they provide excellent thermal insulation for flat or low-picthed roof using metal decking or asbestoscement roofing sheet. In places where condensation exists.

AB Wool Insulation glasswool must be faced with a reflective alumunium foil vapour barrier.

PRODUCT APPLICATION

AB Wool Insulation glasswool are used for external lagging air condition ducts and thermal Insulation of roofs, etc.

PHYSICAL CHARACTERISTICS

Type	Blanket						Sheet	
Nominal Density (kg/m^3)	16		24		32		48	
Nominal Thickness (mm)	25	50	25	50	25	50	25	50
Standard Width (m)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Standard Length (m)	30	15	30	15	30	15	2.3	2.3
Mass Perunit Area (kg/m^2)	0.40	0.80	0.60	1.20	1.80	1.60	1.20	2.40

THERMAL CONDUCTIVITY (K-Value)

- Density 16 kg/m^3 (0.037 W/mk) at 20°C mean temperature (0.257 BTU-in/hr.ft^{2o}F at 68°F mean temperature.)

- Density 24 kg/m^3 (0.035 W/mk) at 20°C mean temperature (0,243 BTU-in/hr.ft^{2o}F at 68°F mean temperature.)

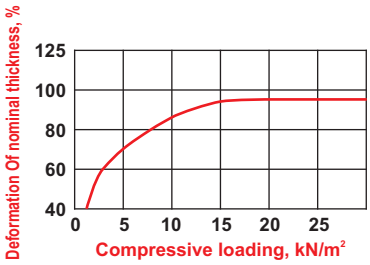
- Density 32 kg/m^3 (0,034 W/mk) at 20°C mean temperature (0,236 BTU-in/hr.ft^{2o}F at 68°F mean temperature.)

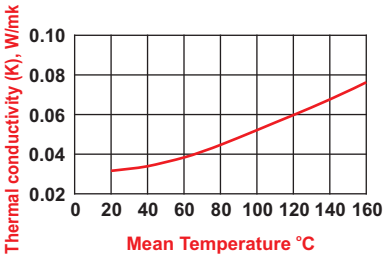
- Density 48 kg/m^3 (0,033 W/mk) at 20°C mean temperature (0,229 BTU-in/hr.ft^{2o}F at 68°F mean temperature.)

*** Mean temperature = (T1+T2)/2**
Where T1 = Temperature of hot side of insulation
T2 = Temperature of cool side of insulation

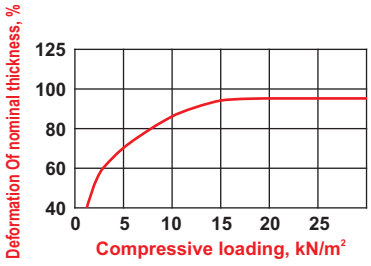
At mean temperatur 20°C (metric value) and 68°C (imperial value)									
Type		Blanket						Sheet	
Nominal Density (kg./m^3)		16		24		32		48	
Nominal Thickness (mm)		25	50	25	50	25	50	25	50
Thermal Conductivity	W/mK	0.037	0.037	0.035	0.035	0.034	0.034	0.033	0.033
(K)	BTU in/hr.ft^2.°F	0.257	0.257	0.243	0.243	0.236	0.236	0.229	0.229
Thermal Conductance	W/m^{2}K	1.48	0.74	1.40	0.70	1.36	0.68	1.32	0.66
(C)	BTU in/hr.ft^2.°F	0.26	0.13	0.24	0.12	0.24	0.12	0.23	0.11
Thermal Resistance	m^{2}K/W	0.67	1.35	0.71	1.43	0.74	1.47	0.76	1.52
(R)	hr.ft^2.°F/BTU	3.89	7.78	4.12	8.23	4.24	8.47	4.37	8.73

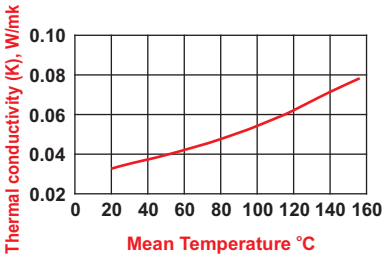
Ductwrap 16





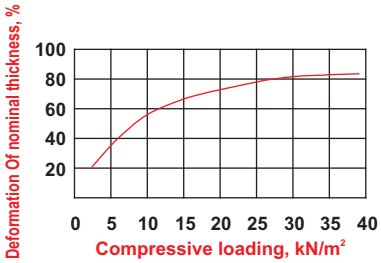
Ductwrap 24

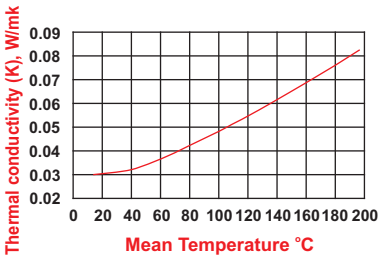




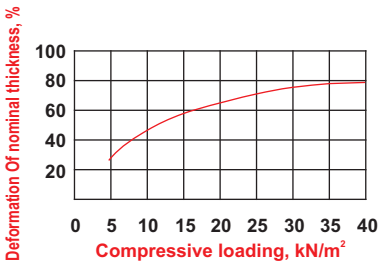
AB Wool® Glasswool

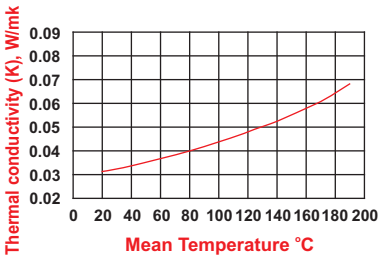
Ductwrap 32



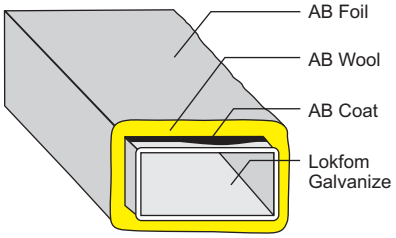


Ductwrap 48

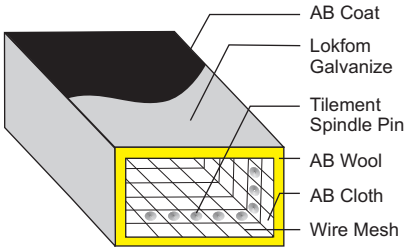




Ducting Insulation: Outside



Ducting Insulation: Inside



MOISTURE ABSORPTION

When tested in an atmosphere of 65% relative humidity at 20°C (in accordance with British Standard 2972-1975), the moisture content of **AB Wool** Insulation glasswool is 0,1% by volume.

AKALINITY

When tested in accordance with British Standard 3958 **AB Wool** Insulation glasswool is slightly alkaline pH9.

MAXIMUM SERVICE TEMPERATURE

The maximum service temperature for **AB Wool** Insulation glasswool is 340°C. Where facing are applied, the temperature tolerances of the facing adhesive limit the surface temperature to be 70°C. (The appropriate insulation thickness can be used to limit surface temperature to 70°C.)

SOUND ABSORPTION C0-EFFICIENT

AB Wool Insulation glasswool has the following sound absorption coefficient when tested in accordance with AS 1045 - 1971 by th Reverberation Room Method. Tests were carried out with no air space behind the samples, and results are based on test reports from C.S.I.R.O. or other N.A.T.a Registered laboratories.

Sond Absorption Coefficient (reverberation)							
Nominal Density	Nominal Thickness	Frequency - Hz					
(kg./m³)	(Mm)	125	250	500	1000	2000	NRC
16	25	0.28	0.30	0.37	0.61	0.78	0.52
16	50	0.25	0.47	0.74	0.79	0.81	0.70
24	25	0.16	0.27	0.57	0.79	0.90	0.63
24	50	0.26	0.55	0.92	1.05	1.04	0.89
32	25	0.15	0.33	0.64	0.77	0.88	0.65
32	50	0.26	0.59	0.98	1.04	1.03	0.90
48	25	0.08	0.25	0.64	0.90	1.05	0.71
48	50	0.27	0.79	1.11	1.18	1.10	1.05

Result tested in accordance with AS 1045 - 1976 By the Reverberation Room Method

FIRE PERFORMANCE

AB Wool Insulation glasswool products are non-combustible. When it is exposed to the conditions of the test specified in British Standard 476: Part 4: 1970 “Fire Test on Building Materials and Structures - Non-combustibility Test for Materials”.

RESULTS:

Description	Specimen 1	Specimen 2	Specimen 3	Requirements
Time of continuous flaming (sec.)	0	0	0	<10
Temperature rise of furnace (°C)	28	21	19	<50
Temperature rise of sample (°C)	0	0	0	<50
Classification	Non-Combustion	Non-Combustion	Non-Combustion	-

PRODUCT BENEFIT

- Energy Conservation - Noise Reduction - Personnel Protection
- Temperature Control - Condensation Control - Etc

PT. ADIMAS ISOLASITAMA

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Jl. Pangeran Jayakarta 131 - A / 11, Jakarta 10730 - INDONESIA
Telp. (021) 6257888 (H), 6397888 (H) Fax. (021) 6258836 - 6393079
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