

ALLEY-K^{*} pipe insulation is a preformed insulation product composed of high quality glass fibres, bonded together with a thermosetting resin. The 36" pipe sections are available with or without the All Service Jacket (ASJ). Our all service vapour retarder jacket (ASJ) reinforced with glass fibres comes with a factory applied pressure sensitive self-sealing lap closure system (SSL). Butt strips are also supplied.

USES

ALLEY-K[®] pipe insulation is intended as a thermal insulation product for hot and cold service piping. Typical uses include domestic hot and cold water, hot water heating, high temperature, dual temperature, steam, condensate and refrigerated lines. As a component of a suitable insulation system, plain ALLEY-K[®] pipe insulation may be used for light industrial applications, while ALLEY-K[®] pipe insulation with ASJ jacket may be used for commercial and institutional usage.

AVAILABILITY

Manufactured dimensions are listed in the Manson Insulation product catalog.

SPECIFICATION COMPLIANCE

ASTM C547 - TYPE I Standard Specifications for Mineral Pipe Insulation

ASTM C795, MIL-I-24244C, NRC 1.36

Specification for wicking-type thermal insulation for use over austenitic stainless steel

CITY OF NEW YORK MEA 325-83-M

NATIONAL FIRE PROTECTION ASSOCIATION NFPA 90A & 90B

CGSB 51-GP-9M

FIRE HAZARD CLASSIFICATION (UL 723, CAN/ULC-S102-M88, ASTM E84, NFPA 255)

JACKETING

- UL 723/ASTM E84
- CGSB 51-GP-52M
- ASTM C1136 (Type I, II)
- Water Vapour Permeance (ASTM E-96) : 0.02 perms MAX
- ASTM C1338 : Does not promote microbial growth
- TAPPI T803 (Beach Units) Jacket minimum rating of 50 units.

GREENGUARD Environmental Institute™

Children & SchoolsSM Certified for superior indoor air quality (IAQ) performance

CONTRACTOR:

JOB NAME:

DATE:

PRODUCT FEATURES WATER VAPOUR ABSORPTION

ASTM C 1104 - Less than 0.2% by volume

ALKALINITY (ASTM C 871) Less than 0.6% as Na2O. pH between 7.5 and 10.0

MICROBIAL GROWTH (ASTM C 1338) Does not promote microbial growth

HOT SURFACE PERFORMANCE ASTM C 411 - Rated to 850°F (454°C)

LINEAR SHRINKAGE (ASTM C 356) Negligible

STRESS CORROSION Complies with ASTM C 795, MIL-I-24244C and NRC 1.36.

CORROSIVENESS (ASTM C 665) No greater than sterile cotton.



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KEEPING IT SIMPLE.



Fiberglass Pipe Insulation 0°F to 850°F (-18°C to 454°C)





<pre> RD TIO N </pre>		FLAME SPREAD	SMOKE DEVELOPED
FIRE HAZA CLASSIFICA	Plain	25	50
	ASJ	25	50

EDULE	TIME	TEMPERATURE @	total Time		
SC H	3.5 hrs	550°F (288°C)	3.5 hrs		
ΓUΡ	2.5 hrs	650°F (343°C)	6 hrs		
HEAT	2 hrs	750°F (399°C)	8 hrs		

~	MEAN TEMPERATURE		THERMAL CONDUCTIVITY	
IVIT.	°F	°C	Btu.in/ hr.ft ² .°F	W/m.°C
UCT 35)	75	24	0.23	0.033
C 30 C 30 C 30 C 30 C 30 C 30 C 30 C 30	100	38	0.24	0.035
°≥	200	93	0.28	0.040
A L - A S I	300	149	0.34	0.049
MR M	400	204	0.42	0.061
끈	500	260	0.51	0.074
	600	316	0.62	0.089

USAGE QUALIFICATIONS

- 1. Hot surface performance: tested to 850°F (454°C) according to ASTM C411.
- 2. A sufficient thickness of insulation must be used to keep maximum surface temperature of Alley-K[®] pipe insulation with ASJ jacket below 140°F (60°C).
- 3. At operating temperatures above 500°F (260°C), Alley-K[®] pipe insulation must be applied in a thickness ranging from 2" (51mm) min to 6" (152mm) max.
- 4. Due to the fact that binder is organic in nature, we recommend the following heat up schedule for operating temperatures from 500°F (260°C) to 850°F (454°C). (see table)
- 5. When pressure sensitive self-sealing tape and butt strips are used, the material must be stored in a clean, dry environment. When adhering SSL tape and butt strip, rub firmly with a hard object such as a plastic squeegee or back of a knife to assure good vapour seal.
- 6. Fibrous insulation can emit a acrid odour during the initial heat-up when applied to hot surfaces above 392°F (200°C). It is recommended that adequate ventilation be provided and /or workers be supplied with approved full face respirators.

INSTALLATION

Manson Alley- K^{\otimes} pipe insulation is usually applied in accordance with the procedure in the publication "Commercial & Industrial Standards" by the National Insulation Association.

Manson Insulation Products Ltd. has no control over installation design, installation workmanship, accessory materials, or conditions of application. Manson does not warrant the performance or results of any installation containing their products. This warranty disclaimer includes all implied warranties, including the warranties of merchantability and fitness for a particular purpose.







