



35TL Heavy Duty

General Description

35TL-HD is a heavy duty flame retardant vapor barrier facing consisting of .00035" (9 micron) aluminum foil, fiberglass reinforcing yarn and natural kraft paper laminated together with a flame retardant adhesive. This product is typically used as a facing for duct wrap and duct board.

Construction

	<u>English</u>	<u>Metric</u>
Aluminum Foil00035 inches ± 10%	9 microns
Fiberglass Reinforcing Yarn	MD: 5/ inch XD: 5/ inch	MD: 20 / 100mm XD: 20 / 100mm
Adhesive	Flame Retardant	Flame Retardant
Natural Kraft Paper	30 lbs / 3000 ft ² ±10%	49 gm / m ²

Typical Physical Properties

<u>Properties</u>	<u>Test Method</u>	<u>Value</u>	
		<u>English</u>	<u>Metric</u>
Basis Weight	Scale	30 lbs / MSF	146 gm/m ²
Permeance (MVTR)	ASTM E-96, Procedure A	.02 max	1.15ng/Pa*s*m ²
Puncture Resistance	ASTM D-781	50 scale units	58scale units
Tensile Strength	ASTM D-828	MD: 45 #/in XD: 25 #/in	MD: 7.9kn/cm XD :4.4kn/cm
Mullen Burst	ASTM D-774	55 psi	3.9kg/cm ²
Mold & Mildew Resistance	ASTM D-2020	None	None
Corrosion	120F (49C) @ 95%RH (30 days)	None	None
Delamination	120F (49C) @ 95%RH (30 days)	None	None
High Temp. Resistance	24 hours @ 150F (66C)	Pass	Pass
Adhesion	1 hour water @ 70F (21C)	Pass	Pass
Flammability	ASTM E-84	Flame Spread <25 Smoke <50	Same Same

U. L. Surface Burning Characteristics

	<u>Foil Exposed</u>	<u>Kraft Exposed</u>
Flame Spread	10	35
Smoke	5	20

This product meets ASTM C1136-90 requirements for insulation facings.

The physical (or chemical) properties of Johns Manville products represent typical average values obtained in accordance with acceptable test methods and are subject to normal manufacturing variations. Values are supplied as a technical service and are subject to change without notice. Rev.2-11/3/00

Hamilton Technologies, A Business of Johns Manville Corporation

7400 Ranco Road
Richmond, VA 23228
(804) 261-7400 / FAX (804) 261-7405

Corporate Headquarters- 717 17TH Street
Denver, CO 80202
(303) 987-2000