



**Johns Manville**

**70TL**

**Product Data Sheet**

General Description

70TL is a flame retardant vapor barrier facing consisting of .0007" (18 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 Foil .....               | .0007 inches $\pm$ 10%                  | 18 microns                      |
| Fiberglass Reinforcing Yarn ..... | MD: 4/ inch<br>XD: 4/ inch              | MD:16 / 100mm<br>XD: 16 / 100mm |
| Adhesive .....                    | Flame Retardant                         | Flame Retardant                 |
| Natural Kraft Paper .....         | 30 lbs / 3000 ft <sup>2</sup> $\pm$ 10% | 49 gm / m <sup>2</sup>          |

Typical Physical Properties

| <u>Properties</u>           | <u>Test Method</u>           | <u>Value</u>                  |                                |
|-----------------------------|------------------------------|-------------------------------|--------------------------------|
|                             |                              | <u>English</u>                | <u>Metric</u>                  |
| Basis Weight                | Scale                        | 29 lbs / MSF                  | 142 gm / m <sup>2</sup>        |
| Permeance (MVTR)            | ASTM E-96, Procedure A       | .02 max                       | .013 max                       |
| Puncture Resistance         | ASTM D-781                   | 50 scale units                | 58 scale units                 |
| Tensile Strength ASTM D-828 |                              | MD: 45 #/in.<br>XD: 30 #/in.  | MD: 7.9 kn/cm<br>XD: 5.3 kn/cm |
| Mullen Burst                | ASTM D-774                   | 50 psi                        | 3.5 kg/cm <sup>2</sup>         |
| 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<br>Smoke <50 | Same<br>Same                   |

**U. L. Surface Burning Characteristics**

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

**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.o-12/9/98

|  |  |
|--|--|
| <b>Hamilton Technologies, A Business of Johns Manville Corporation</b> | <b>Corporate Headquarters- 717 17TH Street</b> |
| <b>7400 Ranco Road</b>   | <b>Denver, CO 80202</b>                        |
| <b>Richmond, VA 23228</b>  | <b>(303) 987-2000</b>                          |
| <b>(804) 261-7400 / FAX (804) 261-7405</b>                             |  |