

## MPS No. 1025

**Subject:** Chemical Exposure

**Date:** June 2017 (Revised January 2019)

Tru-R insulation is used in a wide variety of applications. There may be instances in applications where Tru-R insulation is subjected to chemical exposure. This can be by either direct exposure to the chemicals or to their chemical vapors. Exposure to chemicals most commonly occurs during the installation process or as the result of exposure after the Tru-R insulation is in place.

The attached table provides general guidance for the resistance of Tru-R insulation to a number of chemicals. The table is intended to provide a preliminary guide, but does not guarantee long term performance of Tru-R insulation when in contact with the listed or any other chemicals.

It is recommended that laboratory tests modeled to represent chemical exposure in end use conditions be conducted to assure efficacy of the Tru-R insulation.

When the exposure of Tru-R insulation to any harmful chemicals is a possibility or in doubt, the protection of Tru-R insulation by means of an appropriate barrier material is required.

**Rating:** Overall chemical exposure performance is noted by a rating symbol.

S = Satisfactory

M = Marginal\*

U = Unsatisfactory\*

Chemical	Rating
Acetic Acid (5%)	S
Acetic Acid (10%)	M
Acetone	U
Ammonia	S
Benzene	U
Butly Alcohol	S
Citric Acid (10%)	S
Citric Acid (20%)	M
Detergents	M
Diesel Fuel	U
Ethyl Acetate (98%)	U
Ethyl Alcohol (95%)	M
Ethylene Glycol	S
Gasoline	U
Hexane	U
Hydrochloric Acid (10%)	S
Hydrochloric Acid (38%)	M
Hydrochloric Acid (100%)	U
Hydrogen Peroxide (30%)	S
Isopropyl Alcohol	M

Chemical	Rating
Kerosene	U
Methyl Alcohol	M
Methyl Ethyl Ketone	U
Mineral Oil	S
Motor Oil	M
Nitric Acid (20%)	U
Paint Thinner	U
Petroleum Jelly	S
Potassium Hydroxide (%30)	S
Propyl Alcohol	M
Propylene Glycol	S
Sodium Chloride (saturated)	M
Sodium Hypochlorite (15%)	S
Sodium Hydroxide (40%)	S
Sulphuric Acid (50%)	S
Sulphuric Acid (96%)	S
Toluene	U
Turpentine	U
Water (salt/sea)	S
Xylene	U

\* Tru-R insulation must be protected by an appropriate barrier material if there is a potential of exposure to these chemicals.

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