

MPS No. 1025

Subject: Chemical Exposure

Date: June 2017 (Revised January 2019)

ThermaFoam R-Control insulation is used in a wide variety of applications. There may be instances in applications where ThermaFoam R-Control 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 ThermaFoam R-Control insulation is in place.

The attached table provides general guidance for the resistance of ThermaFoam R-Control insulation to a number of chemicals. The table is intended to provide a preliminary guide, but does not guarantee long term performance of ThermaFoam R-Control 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 ThermaFoam R-Control insulation.

When the exposure of ThermaFoam R-Control insulation to any harmful chemicals is a possibility or in doubt, the protection of ThermaFoam R-Control 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

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

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www.thermafoam.com



1240 Hwy 77
Hillsboro, TX 76645

Office: 254-582-2730
Fax: 254-582-2811