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1-800-HOT-HOGS® (468-4647)

Chemical Compatibility Guide for: Poly Plus Spill Containment Pallets and Decks

NOTICE:

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Fluorination is a surface treatment of plastics (usually polyethylene or polypropylene) which forms a protective layer or barrier. Level V fluorination treatment results in the double benefit of a polyethylene product with enhanced chemical resistance.

The following chart should be used as a guide for evaluating the suitability of a Level V fluorinated polyethylene spill pallet, with the chemical to be stored. The following table accounts for variations in service temperature.

Chemical	Test Notes	70° F	130° F
Acetone		A	-
Acetaldehyde1	< = 80%	A	-
Acetic Acid1	10%	A	A
Acetic Acid 1	60%	A	B
Acetic Anhydride1	85%	B	B
Aluminum Chloride	< = 100%	A	A
Aluminum Fluoride	< = 100%	A	A
Aluminum Sulphate	< = 100%	A	A
Alums	all types	A	A
Ammonium Carbonate		A	A
Ammonium Chloride	Saturated Solution	A	A
Ammonium Fluoride	Saturated Solution	A	A
Ammonium Hydroxide	10%	A	A
Ammonium Hydroxide	28%	A	A
Ammonium Nitrate	Saturated Solution	A	A
Ammonium Persulphate	Saturated Solution	A	A
Ammonium Sulphate	Saturated Solution	A	A
Ammonium Metaphosphate	Saturated Solution	A	A
Ammonium Sulfide	Saturated Solution	A	A
Amyl Acetate 1,2	< = 100%	A	A
Amyl Alcohol 1,2	< = 100%	B	B
Amyl Chloride2	< = 100%	B	B
Aniline1,2	< = 100%	A	A
Aqua Regia		C	C
Arsenic Acid	< = 100%	A	A
Aromatic Hydrocarbons1,2		A	A
Ascorbic Acid	10%	A	A
Barium Carbonate	Saturated Solution	A	A
Barium Chloride	Saturated Solution	A	A
Barium Hydroxide		A	A
Barium Sulphate	Saturated Solution	A	A
Barium Sulphide	Saturated Solution	A	A
Beer		A	A
Benzene1,2		A	A
Benzoic Acid	< = 100%	A	A
Bismuth Carbonate	Saturated Solution	A	A

Still have questions? In North America contact us:



By Phone:
1-800-HOT-HOGS® (468-4647)

Online:
newpig.com

Email:
hothogs@newpig.com

One Pork Avenue • Tipton, PA 16684-0304

Chemical	Test Notes	70° F	130° F
Bleach Lye	10%	A	A
Borax	Saturated Solution	A	A
Boric Acid	< = 100%	A	A
Brine		A	A
Bromine3	liquid	A	A
Bromine Water2	Saturated Solution	A	A
Butanediol1	< = 100%	A	A
Butanoic Acid2	< = 85%	A	B
Butter1		A	A
n-Butyl Acetate1,2	< = 100%	A	A
n-Butyl Alcohol	< = 100%	A	A
Calcium Carbonate	Saturated Solution	A	A
Calcium Chlorate	Saturated Solution	A	A
Calcium Chloride	Saturated Solution	A	A
Calcium Hydroxide	Saturated Solution	A	A
Calcium Hypochlorite		A	A
Calcium Nitrate	50%	A	A
Calcium Oxide	Saturated Solution	A	A
Calcium Sulfate		A	A
Camphor Oil1,2		A	A
Carbon Disulfide		B	**
Carbon Monoxide		A	A
Carbon Tetrachloride2		A	A
Carbonic Acid		A	A
Castor Oil		A	A
Chlorine in Water	2% Solution	A	A
Chlorobenzene1,2		A	A
Chloroform1,2		A	A
Chlorosulfonic Acid	< = 100%	B	C
Chrome Alum	Saturated Solution	A	A
Chromic Acid	80%	A	A
Chromic Acid	50%	A	A
Chromic Acid	10%	A	A
Cider1		A	A
Citric Acid1	Saturated Solution	A	A
Coconut Oil		A	A
Coconut Oil Alcohols1		A	A
Coffee		A	A
Cola Concentrates1		A	A
Copper Chloride	Saturated Solution	A	A
Copper Cyanide	Saturated Solution	A	A
Copper Fluoride	2%	A	A
Copper Nitrate	Saturated Solution	A	A
Copper Sulfate	Saturated Solution	A	A
Corn Oil1		A	A
Cottonseed Oil1		A	A
Cuprous Chloride	Saturated Solution	A	A
Cutting Oils		A	A
Detergents, synthetic1		A	A
Developers, photographic		A	A
Dextrin	Saturated Solution	A	A
Dextrose	Saturated Solution	A	A
Diazo Salts		A	A
Dibutylphthalate1		A	A
Dichlorobenzene1,2		A	A
Diethyl Ketone1,2		A	A
Diethylene Glycol1		A	A
Diglycolic Acid1		A	A
Dimethylamine		A	A

Chemical	Test Notes	70° F	130° F
Dipentene		A	A
Disodium Phosphate		A	A
Emulsions, Photographic1		A	A
Essential Oils		A	A
Ethyl Acetate1,2	< = 100%	A	A
Ethyl Alcohol1	< = 100%	A	A
Ethyl Alcohol1	35%	A	A
Ethyl Benzene1,2		A	A
Ethyl Chloride2		A	A
Ethyl Ether2		A	A
Ethylene Chloride1,2		A	A
Ethylene Glycol1		A	A
Fatty Acids		A	A
Ferric Chloride	Saturated Solution	A	A
Ferric Nitrate	Saturated Solution	A	A
Ferrous Chloride	Saturated Solution	A	A
Ferrous Sulfate		A	A
Fish Oils		A	A
Fluoboric Acid		A	A
Fluosillic Acid	32%	A	A
Formic Acid	< = 100%	A	A
Fructose	Saturated Solution	A	A
Fruit Pulp1		A	A
Furfural2	< = 100%	A	A
Furfuryl Alcohol1,2		A	A
Gallic Acid1	Saturated Solution	A	A
Gasoline		A	A
Glucose		A	A
Glycerine1		A	A
Glycol		A	A
Glycolic Acid1	30%	A	A
Grape Sugar	Saturated Solution	A	A
Greases (Lithium, Lead,etc.)		A	A
n-Heptane1,2		A	A
Hexachlorobenzene		A	A
Hexanol		A	A
Hydrobromic Acid	50%	A	A
Hydrochloric Acid	< = 100%	A	A
Hydrocyanic Acid	Saturated Solution	A	A
Hydrofluoric Acid1	60%	A	A
Hydrogen Peroxide	30%	A	A
Hydrogen Peroxide	10%	A	A
Hydrogen Sulfide	< = 100%	A	A
Hydroquinone		A	A
Hypochlorous Acid		A	A
Inks1		A	A
Insecticides		A	A
Iodine3	in KI solution	A	A
Isopropyl Alcohol	< = 70%	A	A
Lead Acetate	Saturated Solution	A	A
Lead Nitrate		A	A
Lactic Acid1	20%	A	A
d-Limonene	< = 100%	A	A
Linseed Oil1	< = 100%	A	A
Lubricants		A	A
Magnesium Carbonate	Saturated Solution	A	A
Magnesium Chloride	Saturated Solution	A	A
Magnesium Hydroxide	Saturated Solution	A	A
Magnesium Nitrate	Saturated Solution	A	A

Chemical	Test Notes	70° F	130° F
Magnesium Sulfate	Saturated Solution	A	A
Mercuric Chloride	40%	A	A
Mercuric Cyanide	Saturated Solution	A	A
Mercury		A	A
Methyl Alcohol1	< = 100%	A	A
Methyl Ethyl Ketone1,2	< = 100%	A	A
Methylene Chloride1,2	< = 100%	A	A
Mineral Oils1,2		A	A
Molasses		A	A
Naphtha1,2		A	A
Naphthalene1,2		A	A
Nickel Chloride	Saturated Solution	A	A
Nickel Nitrate	Saturated Solution	A	A
Nickel Sulfate	Saturated Solution	A	A
Nicotine1	dilute	A	A
Nitric Acid	0 - 30%	A	A
Nitric Acid3	30 - 50%	A	B
Nitric Acid3	70%	A	B
Nitric Acid3	95 - 98%	B	B
Nitrobenzene1,2	< = 100%	A	A
n-Octane		A	A
Oleic Acid	Saturated Solution	A	A
Palm Oil		A	A
Perchloroethylene2		A	A
Pesticides		A	A
Petroleum Oils		A	A
Phosphoric Acid	95%	A	A
Photographic Solutions		A	A
Pineno (Terpenes)		A	A
Plating Solutions		A	A
Brass		A	A
Cadmium		A	A
Chromium		A	A
Copper		A	A
Gold		A	A
Lead		A	A
Nickel		A	A
Silver		A	A
Tin		A	A
Zinc		A	A
Potassium Bicarbonate	Saturated Solution	A	A
Potassium Bromide	Saturated Solution	A	A
Potassium Bromate	10%	A	A
Potassium Carbonate		A	A
Potassium Chlorate	Saturated Solution	A	A
Potassium Chloride	Saturated Solution	A	A
Potassium Chromate	40%	A	A
Potassium Cyanide	Saturated Solution	A	A
Potassium Dichromate3	40%	A	A
Potassium Ferricyanide	Saturated Solution	A	A
Potassium Fluoride		A	A
Potassium Hydroxide	Saturated Solution	A	A
Potassium Nitrate3	Saturated Solution	A	A
Potassium Perchlorate	10%	A	A
Potassium Permanganate	20%	A	A
Potassium Persulfate	Saturated Solution	A	A
Potassium Sulfate	Saturated Solution	A	A
Potassium Sulfide	Saturated Solution	A	A
Potassium Sulfite	Saturated Solution	A	A

Chemical	Test Notes	70° F	130° F
Propargyl Alcohol1		A	A
n-Propyl Alcohol1		A	A
Propylene ichloride1,2	< = 100%	A	A
Propylene Glycol1		A	A
Pyridine1		A	A
Resourcinol	Saturated Solution	A	A
Salicylic Acid	Saturated Solution	A	A
Sea Water		A	A
Selenic Acid		A	A
Shortening		A	A
Silver Nitrate Solution		A	A
Soap Solution1		A	A
Sodium Acetate	Saturated Solution	A	A
Sodium Benzoate	35%	A	A
Sodium Bicarbonate	Saturated Solution	A	A
Sodium Bisulfate	Saturated Solution	A	A
Sodium Bisulfite	Saturated Solution	A	A
Sodium Borate		A	A
Sodium Bromide	Dilute	A	A
Sodiumm Carbonate	Saturated Solution	A	A
Sodium Chlorate	Saturated Solution	A	A
Sodium Chloride	Saturated Solution	A	A
Sodium Cyanide		A	A
Sodium Dichromate	Saturated Solution	A	A
Sodium Ferricyanide	Saturated Solution	A	A
Sodium Fluoride	Saturated Solution	A	A
Sodium Hydroxide	Saturated Solution	A	A
Sodium Hypochlorite		A	A
Sodium Nitrate		A	A
Sodium Sulfate		A	A
Sodium Sulfide	Saturated Solution	A	A
Sodium Sulfite	Saturated Solution	A	A
Stannic Chloride	Saturated Solution	A	A
Stannous Chloride	Saturated Solution	A	A
Starch Solution1	Saturated Solution	A	A
Stearic Acid1	< = 100%	A	A
Sulfuric Acid	0 - 50%	A	A
Sulfuric Acid3	70%	A	B
Sulfuric Acid3	98%	B	B
Sulfuric Acid3	Fuming	B	B
Sulfurous Acid		A	A
Tallow2		A	A
Tannic Acid1	Saturated Solution	A	A
Tartaric Acid		A	A
Tetrahydrofuran1,2		A	A
Titanium Tetrachloride1	Saturated Solution	B	B
Toluene1		A	A
Trichloroethylene1,2		A	A
Triethylene Glycol1		A	A
Trisodium Phosphate	Saturated Solution	A	A
Turpentine2		A	A
Urea	0 - 30%	A	A
Urine		A	A
Vanilla Extract1		A	A
Vegetable Oils		A	A
Vinegar		A	A
Water		A	A
Wetting Agents1		A	A
Whiskey1		A	A

Chemical	Test Notes	70° F	130° F
Wines1		A	A
Xylene2		A	A
Yeast		A	A
Zinc Bromide	Saturated Solution	A	A
Zinc Carbonate	Saturated Solution	A	A
Zinc Chloride	Saturated Solution	A	A
Zinc Oxide	Saturated Solution	A	A
Zinc Stearate		A	A
Zinc Sulfate	Saturated Solution	A	A

1. Stress Crack Agent. Certain surface active materials can accelerate the cracking of polyethylene when it is under stress. Although our pallets are generally stress-free, caution should be used when pallets are supported and welded fittings are used.
2. Plasticizer. Certain types of chemicals are absorbed to varying degrees by polyethylene causing swelling, softening, and loss of yield strength. If removed from the spill pallet, most plasticizers will not show a continued deleterious effect.
3. Oxidizers. This group of materials is capable of chemically degrading fluorinated polyethylene. Short term effects may not be noticeable. Spill pallets exposed to these products should be inspected before being placed back into service.

RATINGS:

A: Resistant (up to .5% permeation) B: Variable Resistance (up to 2% permeation) C: Not Recommended

** : Above boiling point

For additional assistance, please contact New Pig Technical Services at 1-800-HOT-HOGS® (468-4647).

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One Pork Avenue, Tipton, PA 16684-0304 • 1-800-HOT-HOGS® (468-4647) • Fax: 1-800-621-PIGS (7447)
 Email: hothogs@newpig.com • Web: newpig.com

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