



## WasteShield 12x4

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### PRODUCT DESCRIPTION

WasteShield 12x4 is a single-piece, heat welded containment berm that provides safe, easy and cost-effective solutions for spill containment, while avoiding costly mistakes.

### FEATURES

- Choose from 18oz. or 35 oz. vinyl
- Portable and reusable
- Durable and lightweight
- Easy setup and deployment
- Built for tough jobs
- Flip-up sides make it easy to get in and out.

### CHEMICAL INFORMATION

Use this chart as a General Guide only. Test each chemical first before using. Rating generally correlates as follows:

- A - Excellent
- B - Good (minor effect, slight corrosion or discoloration)
- C - Fair (moderate effect, not recommended for continuous use. Softening, loss of strength or swelling may occur)
- D - Severe Effect (not recommended for ANY use) N/A - no data (information not available)
- 1 – Satisfactory to 72°F (22°C)
- 2 – Satisfactory to 120°F (48°C)

### CAPACITY INFORMATION

Measurement	Capacity
Cubic Yards	0.89 yd <sup>3</sup>
Cubic Feet	24 ft <sup>3</sup>
Cubic Inches	41,472 in <sup>3</sup>
Gallons	180 gal

### TECHNICAL INFORMATION

#### 18 oz.

Product Properties	Specifications (Metric)	Test Method (ASTM)
Weight	19.6 oz/yd <sup>2</sup> (665 g/m <sup>2</sup> )	D751
Thickness	20.3 mils (0.5 mm)	D751
Puncture Strength	236 lbs (1000 N)	D4833
Ball Burst	629 lbs (2800 N)	D751
Trap Tear Strength	MD - 41 lbs (182 N) TD - 44 lbs (196 N)	D4533
Hydrostatic Resistance	760 psi (5200 kPa)	D751, Procedure A
Tensile Property - Break Strength	MD - 479 lbs (2100 N) TD - 469 lbs (2100 N)	D751, Procedure A
Tensile Property - Elongation	MD - 19% TD - 25%	D751, Procedure A
Abrasion Resistance	11000 Cycles	D3884
Low Working Temp	-40°F (-40°C)	D751
High Working Temp	158°F (70°C)	

**32 oz.**

Product Properties	Specifications (Metric)	Test Method (ASTM)
Weight	34.4 oz/yd <sup>2</sup> (814g/m <sup>2</sup> )	D751
Thickness	37.5 mils (0.95mm)	D751
Puncture Strength	211 lbs (940 N)	D4833
Ball Burst	559 lbs (2490 N)	D751
Trap Tear Strength	MD - 49 lbs (218 N) TD - 41 lbs (182 N)	D4533
Hydrostatic Resistance	717 psi (4940 kPa)	D751, Procedure A
Tensile Property - Break Strength	MD - 444 lbs (1980 N) TD - 442 lbs (1970 N)	D751, Procedure A
Tensile Property - Elongation	MD - 31% TD - 25%	D751, Procedure A
Abrasion Resistance	10643 Cycles	D3884
Low Working Temp	-40°F (-40°C)	D751
High Working Temp	158°F (70°C)	

Chemical	Compatibility	Chemical	Compatibility	Element	Compatibility
Acetaldehyde	D	Alcohols: Hexyl	A2	Ammonium Carbonate	A2
Acetamide	D	Alcohols: Isobutyl	A1	Ammonium Chloride	A2
Acetate Solvent	D	Alcohols: Isopropyl	A1	Ammonium Fluoride 25%	A
Acetic Acid	D	Alcohols: Methyl	A1	Ammonium Hydroxide	A
Acetic Acid 20%	D	Alcohols: Propyl	A1	Ammonium Nitrate	A2
Acetic Acid 80%	C	Allyl Chloride	D	Ammonium Oxalate	A
Acetic Acid, Glacial	D	Aluminum Acetate (saturated)	A	Ammonium Persulfate	A2
Acetic Anhydride	D	Aluminum Chloride	A2	Ammonium Phosphate, Dibasic	A2
Acetone	D	Aluminum Chloride 20%	A1	Ammonium Phosphate, Monobasic	A
Acetone, 50% water	D	Aluminum Fluoride	A2	Ammonium Phosphate, Tribasic	A
Acetyl Bromide	D	Aluminum Hydroxide	A2	Ammonium Sulfate	A2
Acetyl Chloride (dry)	C	Aluminum Nitrate	B2	Ammonium Sulfite	A2
Acetylene	A1	Aluminum Potassium Sulfate 10%	A2	Amyl Acetate	D
Acrylonitrile	B1	Aluminum Potassium Sulfate 100%	A2	Amyl Alcohol	A2
Adipic Acid	A2	Aluminum Sulfate	A2	Amyl Chloride	D
Alcohols: Amyl	A2	Amines	D	Aniline	C1
Alcohols: Benzyl	D	Ammonia 10%	B1	Aniline Hydrochloride	B2
Alcohols: Butyl	A2	Ammonia Nitrate	B	Antifreeze (glycol-based)	B
Alcohols: Diacetone	B1	Ammonia, anhydrous	A2	Antimony Trichloride	A2
Alcohols: Ethyl	C	Ammonia, liquid	A1	Aqua Regia (80% HCl, 20% HNO <sub>3</sub> )	C1
Antimony Trichloride	A2	Bleaching Liquors	A1	Calcium Hydroxide (saturated)	A
Aqua Regia (80% HCl, 20% HNO <sub>3</sub> )	C1	Borax (Sodium Borate)	A1	Calcium Hypochlorite	B1
Aromatic Hydrocarbons	D	Boric Acid	A2	Calcium Hypochlorite (satu- rated)	A
Arsenic Acid	A1	Bromine	C1	Calcium Hypochlorite 30%	A
Arsenic Salts	A	Butadiene	C1	Calcium Nitrate	A2
Asphalt	A2	Butane	C1	Calcium Oxide	B
Barium Carbonate	A2	Butanol (Butyl Alcohol)	C1	Calcium Sulfate	B2
Barium Chloride	A1	Buttermilk	A1	Calcium Sulfide	A
Barium Cyanide	D	Butyl Amine	D	Cane Juice	A1
Barium Hydroxide	A2	Butyl Ether	A2	Carbolic Acid (Phenol)	D
Barium Nitrate	A	Butylacetate	D	Carbon Bisulfide	D



Barium Sulfate	B1	Butylene	A1	Carbon Dioxide (dry)	A2
Barium Sulfide	A2	Butyric Acid	B1	Carbon Dioxide (wet)	A1
Beer	A2	Calcium Bisulfide	A2	Carbon Disulfide	D
Beet Sugar Liquids	A2	Calcium Bisulfite	B	Carbon Monoxide	A2
Benzaldehyde	D	Calcium Carbonate	A2	Carbon Tetrachloride	D
Benzene	C1	Calcium Chlorate	B2	Carbonated Water	A
Benzene Sulfonic Acid	A	Calcium Chloride (30% in water)	C	Carbonic Acid	A2
Benzoic Acid	A	Calcium Chloride (saturated)	A	Catsup	A
Bleach	A	Calcium Hydroxide	B	Cellulose Acetate	D
Chloral Hydrate	A	Copper Nitrate	A2	Dimethyl Formamide	D
Chloric Acid	A2	Copper Sulfate >5%	A2	Diphenyl Oxide	D
Chlorine (dry)	D	Copper Sulfate 5%	A2	Disodium Phosphate	A
Chlorine Water	A2	Creosote	A	Dyes	B
Chlorine, Anhydrous Liquid	D	Cresols	D	Epsom Salts (Magnesium Sulfate)	A1
Chloroacetic Acid	B1	Cresylic Acid	D	Ethane	A1
Chlorobenzene (Mono)	D	Cupric Acid	A2	Ethanol	C
Chlorobromomethane	D	Cyclohexane	D	Ethanolamine	D
Chloroform	D	Cyclohexanone	D	Ether	D
Chlorosulfonic Acid	D	Detergents	A	Ethyl Acetate	D
Chromic Acid 10%	A2	Dextrin	A	Ethyl Benzoate	D
Chromic Acid 30%	A1	Dextrose	A	Ethyl Chloride	D
Chromic Acid 5%	A2	Diacetone Alcohol	D	Ethyl Ether	D
Chromic Acid 50%	D	Dichlorobenzene	D	Ethylene Bromide	D
Chromium Salts	A	Dichloroethane	D	Ethylene Chloride	D
Cider	A	Diesel Fuel	A1	Ethylene Chlorohydrin	D
Citric Acid	B2	Diethyl Ether	D	Ethylene Diamine	D
Copper Chloride	A1	Diethylamine	D	Ethylene Dichloride	D
Copper Cyanide	A2	Diethylene Glycol	C1	Ethylene Glycol	A
Copper Fluoborate	A	Dimethyl Aniline	D	Ethylene Oxide	D
Fatty Acids	A	Furfural	D	Hydrochloric Acid 20%	A2
Ferric Chloride	A	Gallic Acid	B	Hydrochloric Acid 37%	B
Ferric Nitrate	A	Gasoline (high-aromatic)	A	Hydrochloric Acid, Dry Gas	A2
Ferric Sulfate	A	Gasoline, leaded, ref.	B	Hydrocyanic Acid	B
Ferrous Chloride	A	Gasoline, unleaded	C2	Hydrocyanic Acid (Gas 10%)	A
Ferrous Sulfate	A	Gelatin	B	Hydrofluoric Acid 100%	C
Fluoboric Acid	A	Glucose	A2	Hydrofluoric Acid 20%	B
Fluorine	D	Glue, P.V.A.	C	Hydrofluoric Acid 50%	B1
Fluosilicic Acid	D	Glycerin	A	Hydrofluoric Acid 75%	C
Formaldehyde 100%	A	Glycolic Acid	B	Hydrofluosilicic Acid 100%	B1
Formaldehyde 40%	A	Grape Juice	A	Hydrofluosilicic Acid 20%	A2
Formic Acid	A1	Grease	A	Hydrogen Gas	A2
Freon® 11	A2	Heptane	C1	Hydrogen Peroxide 10%	A1
Freon® 113	B	Hexane	B1	Hydrogen Peroxide 100%	A
Freon® 12	A2	Honey	A	Hydrogen Peroxide 30%	A1
Freon® 22	A	Hydraulic Oil (Petro)	A	Hydrogen Peroxide 50%	A1

Freon® TF	B	Hydraulic Oil (Synthetic)	A	Hydrogen Sulfide (aqua)	B1
Fruit Juice	A	Hydrobromic Acid 100%	A1	Hydrogen Sulfide (dry)	A2
Fuel Oils	A2	Hydrobromic Acid 20%	B2	Hydroquinone	B
Furan Resin	A	Hydrochloric Acid 100%	D	Hydroxyacetic Acid 70%	D
Ink	C	Lithium Chloride	D	Methane	B
Iodine	A	Lubricants	B2	Methanol (Methyl Alcohol)	A1
Iodine (in alcohol)	A	Lye: Ca(OH) <sub>2</sub> Calcium Hydroxide	B2	Methyl Acetate	D
Iodoform	A	Lye: KOH Potassium Hydroxide	B	Methyl Acetone	D
Isooctane	A1	Lye: NaOH Sodium Hydroxide	A	Methyl Alcohol 10%	A1
Isopropyl Acetate	D	Magnesium Bisulfate	A2	Methyl Bromide	D
Isopropyl Ether	B	Magnesium Carbonate	B	Methyl Butyl Ketone	A
Isotane	A	Magnesium Chloride	B	Methyl Cellosolve	D
Jet Fuel (JP3, JP4, JP5, JP8)	C	Magnesium Hydroxide	A2	Methyl Chloride	D
Kerosene	A2	Magnesium Nitrate	A2	Methyl Dichloride	A
Ketones	D	Magnesium Sulfate (Epsom Salts)	A1	Methyl Ethyl Ketone	D
Lacquer Thinners	D	Maleic Acid	A2	Methyl Isobutyl Ketone	D
Lacquers	D	Malic Acid	A2	Methyl Isopropyl Ketone	D
Lactic Acid	B1	Manganese Sulfate	C	Methyl Methacrylate	A
Lard	A1	Mayonnaise	D	Methylamine	D
Lead Acetate	B	Melamine	D	Methylene Chloride	D
Lead Nitrate	A2	Mercuric Chloride (dilute)	A	Milk	A2
Lead Sulfamate	B	Mercuric Cyanide	A	Mineral Spirits	A
Lime	B	Mercurous Nitrate	A	Molasses	A
Linoleic Acid	A2	Mercury	A	Monoethanolamine	D
Motor Oil	B	Oils: Aniline	D	Oils: Pine	D
Mustard	B	Oils: Castor	A	Oils: Rosin	C1
Naphtha	A1	Oils: Cinnamon	D	Oils: Sesame Seed	A
Naphthalene	D	Oils: Citric	B	Oils: Silicone	A
Natural Gas	A	Oils: Coconut	A1	Oils: Soybean	A1
Nickel Chloride	A	Oils: Cod Liver	A1	Oils: Transformer	B
Nickel Nitrate	A	Oils: Corn	B	Oils: Turbine	A1
Nickel Sulfate	A	Oils: Cottonseed	B2	Oleic Acid	C2
Nitrating Acid (<1% Acid)	D	Oils: Creosote	C	Oleum 100%	D
Nitrating Acid (<15% H <sub>2</sub> SO <sub>4</sub> )	D	Oils: Crude Oil	A	Oleum 25%	D
Nitrating Acid (<15% HNO <sub>3</sub> )	D	Oils: Diesel Fuel (20, 30, 40, 50)	B	Oxalic Acid (cold)	B
Nitrating Acid (>15% H <sub>2</sub> SO <sub>4</sub> )	D	Oils: Fuel (1, 2, 3, 5A, 5B, 6)	A2	Ozone	B
Nitric Acid (20%)	A1	Oils: Hydraulic Oil (Petro)	A	Palmitic Acid	B1
Nitric Acid (5 to10%)	A1	Oils: Hydraulic Oil (Synthetic)	A	Paraffin	B
Nitric Acid (50%)	B1	Oils: Linseed	A2	Pentane	A
Nitric Acid (Concentrated)	B1	Oils: Mineral	B	Perchloric Acid	C
Nitrobenzene	D	Oils: Olive	C	Perchloroethylene	C1
Nitromethane	B2	Oils: Orange	C1	Petrolatum	B
Nitrous Acid	A	Oils: Palm	A	Phenol (10%)	C1
Nitrous Oxide	A	Oils: Peanut	A1	Phenol (Carbolic Acid)	D
Phosphoric Acid (<40%)	B	Plating Solutions: Chromium: Black Chrome Bath 115°F	A	Plating Solutions: Iron: Sulfate-Chloride Bath 160°F	D

Phosphoric Acid (>40%)	B	Plating Solutions: Chromium: Chromic-Sulfuric Bath 130°F	A	Plating Solutions: Lead Fluoborate Plating	A
Phosphoric Acid (crude)	B2	Plating Solutions: Chromium: Fluoride Bath 130°F	A	Plating Solutions: Nickel: Electroless 200°F	D
Phosphoric Acid (molten)	D	Plating Solutions: Chromium: Fluosilicate Bath 95°F	A	Plating Solutions: Nickel: Fluoborate 100-170°F	A
Phosphorus	A1	Plating Solutions: Copper (Acid): Copper Fluoborate Bath 120°F	A	Plating Solutions: Nickel: High-Chloride 130-160°F	D
Phosphorus Trichloride	D	Plating Solutions: Copper (Acid): Copper Sulfate Bath R.T.	A	Plating Solutions: Nickel: Sulfamate 100-140°F	A
Photographic Developer	A	Plating Solutions: Copper (Cya- nide): Copper Strike Bath 120°F	A	Plating Solutions: Nickel: Watts Type 115-160°F	D
Photographic Solutions	A	Plating Solutions: Copper (Cya- nide): High-Speed Bath 180°F	D	Plating Solutions: Rhodium Plating 120°F	A
Phthalic Anhydride	D	Plating Solutions: Copper (Cya- nide): Rochelle Salt Bath 150°F	D	Plating Solutions: Silver Plat- ing 80-120°F	A
Picric Acid	D	Plating Solutions: Copper (Misc): Copper (Electroless)	A	Plating Solutions: Tin-Fluobo- rate Plating 100°F	A
Plating Solutions: Anti- mony Plating 130°F	A	Plating Solutions: Copper (Misc): Copper Pyrophosphate	A	Plating Solutions: Tin-Lead Plating 100°F	A
Plating Solutions: Arse- nic Plating 110°F	A	Plating Solutions: Gold: Acid 75°F	A	Plating Solutions: Zinc: Acid Chloride 140°F	A
Plating Solutions: Brass: High-Speed Brass Bath 110°F	A	Plating Solutions: Gold: Cyanide 150°F	D	Plating Solutions: Zinc: Acid Fluoborate Bath R.T.	A
Plating Solutions: Brass: Regular Brass Bath 100°F	A	Plating Solutions: Gold: Indium Sulfamate Plating R.T.	A	Plating Solutions: Zinc: Acid Sulfate Bath 150°F	D
Plating Solutions: Bronze: Cu-Cd Bronze Bath R.T.	A	Plating Solutions: Gold: Neutral 75°F	A	Plating Solutions: Zinc: Alka- line Cyanide Bath R.T.	A
Plating Solutions: Bronze: Cu-Sn Bronze Bath 160°F	D	Plating Solutions: Iron: Ferrous Am Sulfate Bath 150°F	D	Potash (Potassium Carbonate)	A
Plating Solutions: Bronze: Cu-Zn Bronze Bath 100°F	A	Plating Solutions: Iron: Ferrous Chloride Bath 190°F	D	Potassium Bicarbonate	A
Plating Solutions: Cadmium: Cyanide Bath 90°F	A	Plating Solutions: Iron: Ferrous Sulfate Bath 150°F	D	Potassium Bromide	A
Plating Solutions: Cadmium: Fluoborate Bath 100°F	A	Plating Solutions: Iron: Fluobo- rate Bath 145°F	D	Potassium Chlorate	A
Plating Solutions: Chro- mium: Barrel Chrome Bath 95°F	A	Plating Solutions: Iron: Sulfa- mate 140°F	A	Potassium Chloride	A
Potassium Chromate	A	Salicylic Acid	B1	Sodium Hydrosulfite	C
Potassium Cyanide Solutions	A	Salt Brine (NaCl saturated)	A	Sodium Hydroxide (20%)	A
Potassium Dichromate	A	Sea Water	A2	Sodium Hydroxide (50%)	A
Potassium Ferricyanide	A	Silicone	A	Sodium Hydroxide (80%)	A
Potassium Ferrocyanide	A	Silver Nitrate	A1	Sodium Hypochlorite (<20%)	A
Potassium Hydroxide (Caustic Potash)	A1	Soap Solutions	A	Sodium Hypochlorite (100%)	B
Potassium Hypochlorite	B1	Soda Ash (see Sodium Carbon- ate)	A	Sodium Iodide	A
Potassium Iodide	A2	Sodium Acetate	B1	Sodium Metaphosphate	A
Potassium Nitrate	A	Sodium Benzoate	B1	Sodium Metasilicate	A
Potassium Permanganate	A1	Sodium Bicarbonate	A2	Sodium Nitrate	A2
Potassium Sulfate	A2	Sodium Bisulfate	A2	Sodium Perborate	A2
Potassium Sulfide	A2	Sodium Bisulfite	A2	Sodium Peroxide	B2
Propane (liquefied)	A1	Sodium Borate (Borax)	A2	Sodium Polyphosphate	A1
Propylene	B1	Sodium Bromide	B2	Sodium Silicate	A2
Propylene Glycol	C1	Sodium Carbonate	A2	Sodium Sulfate	A2
Pyridine	D	Sodium Chlorate	A1	Sodium Sulfide	A2
Pyrogalllic Acid	A	Sodium Chloride	A2	Sodium Sulfite	A2
Resorcinal	C	Sodium Cyanide	A2	Sodium Tetraborate	A2
Rosins	C1	Sodium Ferrocyanide	A	Sodium Thiosulfate (hypo)	A2
Rum	A	Sodium Fluoride	A2	Stannic Chloride	A2
Stannous Chloride	A1	Tartaric Acid	A1	Vinyl Chloride	D
Starch	A	Tetrachloroethane	C	Water, Acid, Mine	B
Stearic Acid	B2	Tetrachloroethylene	D	Water, Deionized	A2
Stoddard Solvent	C1	Tetrahydrofuran	D	Water, Distilled	A2
Styrene	D	Tin Salts	A	Water, Fresh	B
Sulfate (Liquors)	B	Toluene (Toluol)	D	Water, Salt	B

Sulfur Chloride	C1	Tomato Juice	A	Whiskey and Wines	A2
Sulfur Dioxide	A1	Trichloroacetic Acid	B	White Liquor (Pulp Mill)	A2
Sulfur Dioxide (dry)	A2	Trichloroethane	C	White Water (Paper Mill)	A
Sulfur Hexafluoride	B	Trichloroethylene	D	Xylene	D
Sulfur Trioxide	A	Tricresylphosphate	D	Zinc Chloride	B
Sulfur Trioxide (dry)	A1	Triethylamine	B	Zinc Sulfate	A2
Sulfuric Acid (<10%)	A1	Trisodium Phosphate	A		
Sulfuric Acid (10-75%)	A1	Turpentine	D		
Sulfuric Acid (75-100%)	D	Urea	D		
Sulfuric Acid (cold con- centrated)	D	Uric Acid	A		
Sulfuric Acid (hot con- centrated)	D	Urine	A		
Sulfurous Acid	A2	Varnish	D		
Tannic Acid	A1	Vinegar	B		
Tanning Liquors	A1	Vinyl Acetate	D		