

# Chemical Compatibility of Fabrics with Common Chemicals

## Bases



Filter Media	Draylon T® (Poly Acrylic)	Polyester	Acrylic (Poly Acrylic)	Fiberglass	Aramid	Polypropylene	P-84	Teflon®
Ammonia (H <sub>3</sub> N)	Limited Suitability	Not Recommended	Limited Suitability	Limited Suitability	Limited Suitability	Excellent	Limited Suitability	Excellent
Calcium Hydroxide (Ca (OH) <sub>2</sub> ) (Hydrated Lime)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Potassium Hydroxide (KOH) (Caustic Potash)	Limited Suitability	Limited Suitability	Not Recommended	Not Recommended	Limited Suitability	Limited Suitability	Limited Suitability	Excellent
Potassium Carbonate (K <sub>2</sub> CO <sub>3</sub> ) (Potash) (Salt of Tartar)	Limited Suitability	Limited Suitability	Limited Suitability	Not Recommended	Excellent	Excellent	Limited Suitability	Excellent
Sodium Hydroxide (Na OH) (Caustic Soda)	Limited Suitability	Limited Suitability	Limited Suitability	Not Recommended	Limited Suitability	Limited Suitability	Not Recommended	Excellent
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> ) (Washing Soda)	Excellent	Excellent	Excellent	Not Recommended	Excellent	Excellent	Limited Suitability	Excellent
Max. Operating Temperature	265	275	265	500	375	170	500	500

Contact a Sly representative for specific performance attributes and use in various applications. A Sly technical expert will recommend the most suitable filter bag for your application.

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## Mineral Acids



Filter Media	Draylon T® (Poly Acrylic)	Polyester	Acrylic (Poly Acrylic)	Fiberglass	Aramid	Polypropylene	P-84	Teflon®
Chromium Trioxide (CrO <sub>3</sub> ) (Chromic Acid Anhydride)	Excellent	Excellent	Excellent	Excellent	Not Recommended	Limited Suitability	Limited Suitability	Excellent
Hydrogen Chloride (HCl) (Hydrochloric Acid) (Muriatic Acid)	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent	Limited Suitability	Excellent
Hydrofluoric Acid (HF)	Excellent	Limited Suitability	Excellent	Not Recommended	Not Recommended	Excellent	Limited Suitability	Excellent
Nitric Acid (HNO <sub>3</sub> )	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Limited Suitability	Excellent
Triphosphoric Acid (H <sub>3</sub> PO <sub>4</sub> )	Excellent	Excellent	Limited Suitability	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Sulphuric Acid (H <sub>2</sub> SO <sub>4</sub> ) (Vitrol)	Limited Suitability	Limited Suitability	Limited Suitability	Excellent	Limited Suitability	Excellent	Limited Suitability	Excellent
Max. Operating Temperature	265	275	265	500	375	170	500	500

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# Chemical Compatibility of Fabrics with Common Chemicals

## Organic Acids



Filter Media	Draylon T <sup>®</sup> (Poly Acrylic)	Polyester	Acrylic (Poly Acrylic)	Fiberglass	Aramid	Polypropylene	P-84	Teflon <sup>®</sup>
Acetic Acid (C <sub>2</sub> H <sub>4</sub> O <sub>2</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Benzoic Acid (C <sub>7</sub> H <sub>6</sub> O <sub>2</sub> )	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent	Limited Suitability	Excellent
Phenol (C <sub>6</sub> H <sub>6</sub> O) (Carbolic Acid)	Excellent	Limited Suitability	Excellent	Not Recommended	Not Recommended	-	Limited Suitability	Excellent
Formic Acid (CH <sub>2</sub> O <sub>2</sub> )	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent	Not Recommended	Excellent
Lactic Acid (C <sub>2</sub> H <sub>5</sub> O <sub>3</sub> )	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent	Limited Suitability	Excellent
Oxalic Acid (C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> ) (Acid of Sugar)	Excellent	Excellent	Excellent	Excellent	Not Recommended	Excellent	Limited Suitability	Excellent
Salicylic Acid (C <sub>7</sub> H <sub>5</sub> O <sub>3</sub> )	Excellent	Excellent	Excellent	Not Recommended	Limited Suitability	Excellent	Limited Suitability	Excellent
Max. Operating Temperature	265	275	265	500	375	170	500	500

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## Organic Solvents



Filter Media	Drayton T® (Poly Acrylic)	Polyester	Acrylic (Poly Acrylic)	Fiberglass	Aramid	Polypropylene	P-84	Teflon®
Acetone (H <sub>2</sub> C-CO-CH <sub>2</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Not Recommended	Excellent
Benzene (C <sub>6</sub> H <sub>6</sub> ) (Benzol)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Carbon Disulfide (CS <sub>2</sub> )	Excellent	Limited Suitability	Excellent	Excellent	Excellent	Not Recommended	Limited Suitability	Excellent
Carbon Tetrachloride (CCl <sub>4</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent
Chloroform (CHCl <sub>3</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent
Cyclohexane (C <sub>6</sub> H <sub>12</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent
Acetone (C <sub>2</sub> H <sub>6</sub> O <sub>2</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent
Ethylalcohol or Methane Ether (C <sub>2</sub> H <sub>6</sub> O) (Vanillin)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Butyl Alcohol or Ethyl Ether (C <sub>4</sub> H <sub>10</sub> O)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Not Recommended	Excellent
Methanol (CH <sub>4</sub> O)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Not Recommended	Excellent
MEK	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent
Nitrogen (N)	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent
Ethylenes Trichloro (C <sub>2</sub> HCl <sub>3</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Methyl Benzine (C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> ) (Toluene)	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Not Recommended	Excellent
O-Xylene (C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Not Recommended	Excellent
Max. Operating Temperature	265	275	265	500	375	170	500	500

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# Chemical Compatibility of Fabrics with Common Chemicals

## Salts



Filter Media	Draylon T® (Poly Acrylic)	Polyester	Acrylic (Poly Acrylic)	Glass	Aramid	Polypropylene	P-84	Teflon®
Calcium Chloride (CaCl <sub>2</sub> )	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent	Limited Suitability	Excellent
Ferrous Chloride (FeCl <sub>2</sub> ·4H <sub>2</sub> O)	Excellent	Excellent	Excellent	Not Recommended	Limited Suitability	Excellent	Limited Suitability	Excellent
Sodium Acetate (C <sub>2</sub> H <sub>3</sub> NaO <sub>2</sub> )	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent	Limited Suitability	Excellent
Sodium Pyrosulfite (Na <sub>2</sub> O <sub>6</sub> S <sub>2</sub> ) (Metan Sulfite)	Not Recommended	Excellent	Excellent	Excellent	Limited Suitability	Excellent	Limited Suitability	Excellent
Sodium Bromide (NaBr)	Excellent	Excellent	Excellent	Not Recommended	Excellent	Excellent	Not Recommended	Excellent
Sodium Perchrate (ClNaO <sub>4</sub> )	Excellent	Excellent	Excellent	-	Excellent	Excellent	Limited Suitability	Excellent
Sodium Cyanide (NaCn)	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent	Limited Suitability	Excellent
Sodium Nitrate (NaNO <sub>3</sub> ) (Chile Saltpeter)	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent	Limited Suitability	Excellent
Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> ) (Glaubers Salt)	Excellent	Excellent	Excellent	Limited Suitability	Excellent	Excellent	Limited Suitability	Excellent
Sodium Sulfide (Na <sub>2</sub> S)	Excellent	Excellent	Excellent	Limited Suitability	Excellent	Excellent	Limited Suitability	Excellent
Zinc Chloride (Cl <sub>2</sub> Zn)	Limited Suitability	Excellent	Limited Suitability	Not Recommended	Limited Suitability	Excellent	Not Recommended	Excellent
Max. Operating Temperature	265	275	265	500	375	170	500	500

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## Oxidizing Agents



Filter Media	Draylon T® (Poly Acrylic)	Polyester	Acrylic (Poly Acrylic)	Fiberglass	Aramid	Polypropylene	P-84	Teflon®
Bromine Calcium (Br)	Limited Suitability	Limited Suitability	Limited Suitability	Excellent	-	Excellent	Limited Suitability	Excellent
Calcium Hypochlorite (Ca(OCl) <sub>2</sub> )	Excellent	Excellent	Excellent	Excellent	-	Excellent	Limited Suitability	Excellent
Carbon (C) (Graphite/ Diamond)	Limited Suitability	Limited Suitability	Limited Suitability	Excellent	-	Excellent	Limited Suitability	Excellent
Fluorine (F)	Limited Suitability	Limited Suitability	Limited Suitability	Not Recommended	-	Excellent	Limited Suitability	Excellent
Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> )	Excellent	Limited Suitability	Excellent	Excellent	-	Excellent	Limited Suitability	Excellent
Iod	Excellent	Excellent	Excellent	Excellent	-	Excellent	Limited Suitability	Excellent
Ozone (O <sub>3</sub> )	Excellent	-	Excellent	Excellent	-	Limited Suitability	Limited Suitability	Excellent
Potassium Chloride (KCl)	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent	Limited Suitability	Excellent
Sodium Chlorate (NaClO <sub>3</sub> )	-	-	Excellent	Excellent	-	Excellent	Limited Suitability	Excellent
Sodium Hypochlorite (NaOCl) (Eau- de-Labarraque)	Limited Suitability	Limited Suitability	Excellent	Excellent	-	Limited Suitability	Limited Suitability	Excellent
Max. Operating Temperature	265	275	265	500	375	170	500	500

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# Chemical Compatibility of Fabrics with Common Chemicals

## Miscellaneous



Filter Media	Draylon T® (Poly Acrylic)	Polyester	Acrylic (Poly Acrylic)	Fiberglass	Aramid	Polypropylene	P-84	Teflon®
Acetaldehyde (H <sub>3</sub> C-CHO) (Aldehyde)	Excellent	Excellent	Excellent	Excellent	Excellent	-	Limited Suitability	Excellent
Vinyl Alcohol (H <sub>2</sub> C-CH <sub>2</sub> O) (Ethenolivinol)	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Limited Suitability	Excellent
Glycerol (C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> ) (Glycerin)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Glycol (C <sub>2</sub> H <sub>6</sub> O <sub>2</sub> )	Excellent	Not Recommended	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Mineral Oil	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Benzine, Nitro (C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub> ) (Essence of Mirbane)	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Excellent
Butane CH <sub>3</sub> - (CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub> )	Excellent	Excellent	Excellent	Excellent	Excellent	Limited Suitability	Not Recommended	Excellent
Max. Operating Temperature	265	275	265	500	375	170	500	500

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