# PVC Hose (Section V)

# No. G/F 100
# PVC SUCTION & DELIVERY HOSE

| Part Number | Inside Diameter | Outside Diameter | Working Pressure PSI@68°F | Working Pressure PSI@104°F | Vacuum In. Hg@68°F | Vacuum In. Hg@104°F | Min. Bend Radius | Weight LB/FT |
|---|---|---|---|---|---|---|---|---|
| G/F-100-075 | 3/4” | 15/16” | 115 | 75 | Full | 28 | 3 | .17 |
| G/F-100-100 | 1” | 1-1/4” | 90 | 65 | Full | 28 | 3 | .22 |
| G/F-100-125 | 1 1/4” | 1-1/2” | 90 | 65 | Full | 26 | 4 | .32 |
| G/F-100-150 | 1 1/2” | 1-3/4” | 90 | 65 | Full | 26 | 5 | .41 |
| G/F-100-200 | 2” | 2-3/8” | 90 | 65 | Full | 26 | 7 | .71 |
| G/F-100-250 | 2-1/2” | 2-7/8” | 70 | 48 | Full | 26 | 8 | .89 |
| G/F-100-300 | 3” | 3-7/16” | 65 | 45 | Full | 26 | 10 | 1.14 |
| G/F-100-400 | 4” | 4-9/16” | 55 | 40 | 28 | 26 | 15 | 1.94 |
| G/F-100-600 | 6” | 6-3/4” | 40 | 25 | 28 | 22 | 25 | 3.72 |
| G/F-100-800 | 8” | 8-7/8” | 30 | 20 | 28 | 18 | 30 | 5.90 |

**Available in Series “G” Solid Green Color and Series “F” Clear with White helix. Shown is Series “F”.**

**Construction:** Made of PVC smooth bore which allows full flow. Smooth cover on sizes 3/4” thru 4”, slightly convoluted cover 6” and 8” ID for greater flexibility. The extreme clarity of series “F” makes it most suitable for applications where visibility of flow is an important requirement. Designed for both suction and delivery.

**Recommended For:** General purpose suction and delivery of fluids, suitable for submersible pumps, boat pumps, construction and mining, irrigation lines, rock dust hose, wellpoint systems, agri-foam application, agri-culture applications and liquid fertilizer transfer.

**Temperature Range:** Static condition -4°F to 150°F. Dynamic condition 14°F to 104°F.

**Lengths:** Standard 100 ft. 3/4” thru 6” ID, Standard 50’ for 8” ID, also cut and/or coupled to individual client’s requirements.

**Couplings:** KC Nipples, Shank couplings, Cam & Groove, etc.

# No. H/J/K - 100
# PVC SUCTION & DELIVERY HOSE

| Part Number | Inside Diameter | Outside Diameter | Working Pressure PSI@68°F | Working Pressure PSI@104°F | Vacuum In. Hg@68°F | Vacuum In. Hg@104°F | Min. Bend Radius | Weight LB/FT |
|---|---|---|---|---|---|---|---|---|
| H/J/K-100-075 | 3/4” | 15/16” | 110 | 70 | 28 | 26 | 3 | .17 |
| H/J/K-100-100 | 1” | 1-1/4” | 85 | 60 | 28 | 26 | 3 | .22 |
| H/J/K-100-125 | 1 1/4” | 1-1/2” | 85 | 60 | 28 | 24 | 4 | .32 |
| H/J/K-100-150 | 1 1/2” | 1-3/4” | 70 | 50 | 28 | 24 | 5 | .36 |
| H/J/K-100-200 | 2” | 2-3/8” | 65 | 45 | 28 | 24 | 7 | .61 |
| H/J/K-100-250 | 2-1/2” | 2-7/8” | 65 | 45 | 28 | 24 | 8 | .82 |
| H/J/K-100-300 | 3” | 3-7/16” | 65 | 40 | 28 | 22 | 10 | 1.09 |
| H/J/K-100-400 | 4” | 4-9/16” | 55 | 35 | 28 | 22 | 15 | 1.91 |
| H/J/K-100-600 | 6” | 6-3/4” | 40 | 25 | 28 | 20 | 30 | 3.35 |

**Available in Series “J” Solid Green Color, Series “H” Clear with White helix and Series “K” Clear with Green Helix. Shown is Series “J”.**

**Construction:** Made of PVC smooth inner and outer surface. The extreme clarity of series “H” makes it most suitable for applications where visibility of flow is an important requirement. Designed for both suction and delivery.

**Recommended For:** General purpose suction and delivery of fluids, suitable for submersible pumps, boat pumps, construction and mining, irrigation lines, rock dust hose, wellpoint systems, agri-foam application, agri-culture applications, liquid fertilizer transfer.

**Temperature Range:** Static condition -4°F to 150°F. Dynamic condition 14°F to 104°F.

**Lengths:** Standard 100 ft., also cut and/or coupled to individual client’s requirements.

**Couplings:** KC Nipples, Shank couplings, Cam & Groove, etc.

# No. WG
# PVC MULTI-PURPOSE SUCTION HOSE

**Series "WG" Solid Green Color**

| Part Number | Inside Diameter | Outside Diameter | Working Pressure PSI@68°F | Working Pressure PSI@104°F | Vacuum In. Hg@68°F | Vacuum In. Hg@104°F | Min. Bend Radius | Weight LB/FT |
|---|---|---|---|---|---|---|---|---|
| WG-150 | 1-1/2" | 1-7/8" | 50 | 25 | Full | 28 | 2 | .34 |
| WG-200 | 2" | 2-3/8" | 50 | 25 | Full | 28 | 3 | .52 |
| WG-300 | 3" | 3-5/8" | 45 | 22 | Full | 28 | 6 | 1.17 |
| WG-400 | 4" | 4-3/4" | 35 | 18 | Full | 28 | 8 | 1.92 |
| WG-600 | 6" | 7" | 30 | 15 | 28 | 25 | 14 | 3.75 |

**Construction:** PVC general purpose suction hose. Designed with a convoluted cover for high flexibility and a smooth bore for unrestricted flow. Solid green color.

**Recommended For:** General purpose suction and delivery of fluids, construction and mining, irrigation lines, rock dusting and sanitary vacuuming

**Temperature Range:** -4°F to 150°F.

**Lengths:** Standard 100 ft., also cut and/or coupled to individual client's requirements.

**Couplings:** KC Nipples, Shank couplings, Cam & Groove, etc.

# No. CVT10
# CLEAR VINYL TUBING

| Part Number | ID | OD | Nom. Wall | WP PSI@ 70°F | Std. Lgth | Wt. lb/ft |
|---|---|---|---|---|---|---|
| CVT-10-18 | 1/8” | 1/4” | 1/16” | 65 | 100’ | .02 |
| CVT-10-316 | 3/16” | 1/4” | 1/32” | 50 | 100’ | .01 |
| CVT-10-3161 | 3/16” | 5/16” | 1/16” | 55 | 100’ | .03 |
| CVT-10-3162 | 3/16” | 3/8” | 3/32” | 60 | 100’ | .05 |
| CVT-10-14 | 1/4” | 3/8” | 1/16” | 55 | 100’ | .04 |
| CVT-10-141 | 1/4” | 7/16” | 3/32” | 58 | 100’ | .06 |
| CVT-10-142 | 1/4” | 1/2” | 1/8” | 60 | 100’ | .08 |
| CVT-10-516 | 5/16” | 7/16” | 1/16” | 50 | 100’ | .04 |
| CVT-10-5161 | 5/16” | 1/2” | 3/32” | 55 | 100’ | .07 |
| CVT-10-5162 | 5/16” | 9/16” | 1/8” | 60 | 100’ | .10 |
| CVT-10-38 | 3/8” | 1/2” | 1/16” | 45 | 100’ | .05 |
| CVT-10-381 | 3/8” | 9/16” | 3/32” | 50 | 100’ | .08 |
| CVT-10-382 | 3/8” | 5/8” | 1/8” | 55 | 100’ | .11 |
| CVT-10-12 | 1/2” | 5/8” | 1/16” | 30 | 100’ | .06 |
| CVT-10-121 | 1/2” | 11/16” | 3/32” | 40 | 100’ | .10 |
| CVT-10-122 | 1/2” | 3/4” | 1/8” | 45 | 100’ | .14 |

| Part Number | ID | OD | Nom. Wall | WP PSI@ 70°F | Std. Lgth | Wt. lb/ft |
|---|---|---|---|---|---|---|
| CVT-10-58 | 5/8” | 13/16” | 3/32” | 35 | 100’ | .12 |
| CVT-10-581 | 5/8” | 7/8” | 1/8” | 40 | 100’ | .16 |
| CVT-10-34 | 3/4” | 1” | 1/8” | 35 | 100’ | .19 |
| CVT-10-341 | 3/4” | 1-1/8” | 3/16” | 45 | 100’ | .30 |
| CVT-10-342 | 3/4” | 1-1/4” | 1/4” | 40 | 100’ | .43 |
| CVT-10-78 | 7/8” | 1-1/8” | 1/8” | 30 | 100’ | .21 |
| CVT-10-781 | 7/8” | 1-1/4” | 3/16” | 35 | 100’ | .34 |
| CVT-10-100 | 1” | 1-1/4” | 1/8” | 25 | 100 | .24 |
| CVT-10-1001 | 1” | 1-3/8” | 3/16” | 30 | 100’ | .38 |
| CVT-10-1002 | 1” | 1-1/2” | 1/4” | 35 | 100’ | .54 |
| CVT-10-114 | 1-1/4” | 1-1/2” | 1/8” | 20 | 50’ | .30 |
| CVT-10-1141 | 1-1/4” | 1-5/8” | 3/16” | 30 | 50’ | .46 |
| CVT-10-1142 | 1-1/4” | 1-3/4” | 1/4” | 40 | 50’ | .64 |
| CVT-10-112 | 1-1/2” | 1-7/8” | 3/16” | 30 | 50’ | .54 |
| CVT-10-1121 | 1-1/2” | 2” | 1/4” | 35 | 50’ | .75 |
| CVT-10-200 | 2” | 2-1/2” | 1/4” | 35 | 50’ | .96 |

*** Note:** Working pressure decreases as temperature increases.

**Construction:** Non reinforced clear vinyl tubing. Cover and tube are compounded from Non-toxic PVC ingredients.

**Features:** The extreme clarity makes it most suitable for applications where visibility of flow is important. Easy to handle, good transparency, smooth bore, self extinguishing, non-marking.

**Recommended For:** Tubing in laboratories, air & water lines, de-ionized water lines, refrigeration drainage, ice making machines, bottling plants, beverage dispenser units.

**Temperature Range:** +25°F to 150°F

**Lengths:** Standard lengths, also cut and/or coupled to individual customer requirements.

*** Note: Also available in FDA &/or USDA approved hose. Please specify on qoutation/purchase order.**

# No. PVCB
# CLEAR PVC POLYESTER BRAID REINFORCED HOSE

| Part Number | Inside Diameter | Outside Diameter | Working Pressure PSI@68°F | Working Pressure PSI@122°F | Standard Length | Weight LB/FT |
|---|---|---|---|---|---|---|
| PVCB-018 | 1/8” | ” | 350 | 200 | 300’ | .04 |
| PVCB-316 | 3/16” | 3/8” | 250 | 150 | 300’ | .04 |
| PVCB-014 | 1/4” | ” | 250 | 150 | 300’ | .06 |
| PVCB-516 | 5/16” | ” | 250 | 135 | 300’ | .08 |
| PVCB-038 | 3/8” | ” | 225 | 125 | 300’ | .09 |
| PVCB-012 | 1/2’ | 3/4” | 200 | 100 | 300’ | .13 |
| PVCB-058 | 5/8” | 7/8” | 200 | 100 | 200’ | .18 |
| PVCB-034 | 3/4” | 1” | 150 | 85 | 200’ | .22 |
| PVCB-100 | 1” | | 125 | 75 | 200’ | .30 |
| PVCB-114 | 1-1/4” | 1-5/8” | 100 | 55 | 100’ | .45 |
| PVCB-112 | 1-1/2” | 1-15/16” | 100 | 50 | 100’ | .64 |
| PVCB-200 | 2” | 2-1/2” | 75 | 35 | 100’ | .94 |

*** Note:** Working pressure decreases as temperature increases.

**Construction:** Crystal clear PVC reinforced with spiraled polyester cords. Also reinforced with multiple longitudinal polyester cords to reduce elongation under pressure. Cover and tube are compounded from Non-toxic PVC ingredients.

**Features:** Good transparency, smooth bore, chemical resistant, self extinguishing, non-marking.

**Recommended For:** Pneumatic lines, air & water lines, glue lines, air breathing lines, lubrication lines, various machine tools, applications where Poly-Vinyl Chloride is compatible with the media to be conveyed.

**Temperature Range:** +25°F to 150°F

**Lengths:** Standard lengths, also cut and/or coupled to individual customer requirements.

*** Note: Also available in FDA &/or USDA approved hose. Please specify on qoutation/purchase order.**

# No. PVCW
# CLEAR PVC REINFORCED WITH SPRING WIRE

| Part Number | Inside Diameter | Outside Diameter | Working Pressure PSI@68°F | Working Pressure PSI@122°F | Standard Length | Weight LB/FT |
|---|---|---|---|---|---|---|
| PVCW-014 | 1/4” | 1/2” | 250 | 80 | 100’ | .10 |
| PVCW-038 | 3/8” | 5/8” | 150 | 80 | 100’ | .13 |
| PVCW-012 | 1/2” | 13/16” | 150 | 80 | 100’ | .21 |
| PVCW-058 | 5/8” | 1” | 150 | 65 | 100’ | .30 |
| PVCW-034 | 3/4” | 1-1/8” | 150 | 65 | 100’ | .36 |
| PVCW-100 | 1’ | 1-3/8” | 100 | 45 | 100’ | .44 |
| PVCW-114 | 1-1/4” | 1-3/4” | 100 | 50 | 50’ | .74 |
| PVCW-112 | 1-1/2” | 2” | 100 | 35 | 50’ | .84 |
| PVCW-200 | 2” | 2-1/2 | 100 | 35 | 50’ | 1.12 |
| PVCW-250 | 2-1/2” | 3” | 50 | 30 | 50’ | 1.38 |
| PVCW-300 | 3” | | 50 | 30 | 50’ | 1.62 |

*** Note:** Working pressure decreases as temperature increases.
*** Caution:** This product is designed to dissipate static electricity when the metal wire is properly connected to ground, through the fitting and other means.

**Construction:** Crystal clear PVC reinforced with a spring wire. Compounded from non-toxic PVC ingredients.

**Features:** Full vacuum rating, anti-kinking, anti-collapsible, chemical resistant, non-toxic,full clear visual flow, smooth tube to reduce material build-up.

**Recommended For:** Full vacuum lines, air & water supply lines, industrial vacuum pumps, air breathing lines, coolant lines, food and beverage dispensing, deionized water systems, car wash applications, pneumatic parts transfer.

**Temperature Range:** +25°F to 150°F

**Lengths:** Standard lengths, also cut and/or coupled to individual customer requirements.

*** Note: Also available in FDA &/or USDA approved hose. Please specify on qoutation/purchase order.**

## No. NF (NU-FLOW) / VF (VINYLFLOW)

### BLUE PVC LAYFLAT - GENERAL PURPOSE WATER DISCHARGE HOSE

| Part Number | ID | Nom. Wall | WP PSI | Std Lgth | Wt lb/ft |
|---|---|---|---|---|---|
| NF-075 | 53/64” | 3/64” | 70 | 300’ | .08 |
| NF-100 | 1-1/16” | 3/64” | 70 | 300’ | .10 |
| NF-125 | 1-3/8” | 3/64” | 70 | 300’ | .13 |
| NF-150 | 1-39/64” | 3/64” | 70 | 300’ | .15 |
| NF-200 | 2-7/64” | 3/64” | 65 | 300’ | .20 |
| NF-250 | 2-19/32” | 3/64” | 60 | 300’ | .28 |
| NF-300 | 3-3/32” | 3/64” | 60 | 300’ | .34 |
| NF-400 | 4-3/32” | 1/16” | 60 | 300’ | .45 |
| NF-500 | 5-5/64” | 5/64” | 40 | 300’ | .70 |
| NF-600 | 6-9/64” | 5/64” | 45 | 300’ | .81 |
| NF-800 | 8-5/32” | 3/32” | 45 | 300’ | 1.10 |

| Part Number | ID | Nom. Wall | WP PSI | Std Lgth | Wt lb/ft |
|---|---|---|---|---|---|
| VF-150 | 1-43/64” | 1/16” | 80 | 300’ | .16 |
| VF-200 | 2-11/64” | 1/16” | 80 | 300’ | .23 |
| VF-250 | 2-39/64” | 5/64” | 80 | 300’ | .29 |
| VF-300 | 3-1/8” | 5/64” | 70 | 300’ | .39 |
| VF-400 | 4-1/8” | 3/32” | 70 | 300’ | .52 |
| VF-500 | 5-3/64” | 3/32” | 40 | 300’ | .68 |
| VF-600 | 6-3/16” | 3/32” | 50 | 300’ | .86 |
| VF-800 | 8-11/64” | 7/64” | 45 | 100’/300’ | 1.30 |
| VF-1000 | 10-1/8” | 1/8” | 35 | 100’ | 1.81 |
| VF-1200 | 12-1/8” | 1/8” | 30 | 100’ | 1.95 |
| VF-1400 | 14-1/4” | 1/8” | 30 | 100’ | 2.62 |
| VF-1600 | 16-9/64” | 1/8” | 30 | 100’ | 3.10 |

**Construction/Features:** Homogeneous PVC tube and cover to eliminate separation, reinforced with a high tensile polyester yarn spiral wrap. Light weight, tough, economical, smooth tube for low friction loss, coils flat for easy storage, ultraviolet inhibitors to reduce aging.

**Applications:** Drip Irrigation, construction, mining and general water discharge.

**Temperature Range:** 5°F to 170°F.

**Lengths:** Standard lengths, also, cut and/or coupled to individual customer requirements.

## No. IS - IRONSIDES

### RED PVC LAYFLAT - GENERAL PURPOSE WATER DISCHARGE HOSE

| Part Number | ID | Nom. Wall | WP PSI | Std Lgth | Wt lb/ft |
|---|---|---|---|---|---|
| IS-150 | 1-39/64” | 3/32” | 150 | 300’ | .23 |
| IS-200 | 2-3/32” | 3/32” | 150 | 300’ | .32 |
| IS-250 | 2-37/64” | 3/32” | 150 | 300’ | .41 |
| IS-300 | 3-3/32” | 7/64” | 150 | 300’ | .52 |
| IS-400 | 4-7/64” | 1/8” | 125 | 300’ | .76 |
| IS-600 | 6-5/32” | 1/8” | 115 | 300’ | 1.21 |
| IS-800 | 8-5/32” | 1/8” | 70 | 300’ | 1.62 |

**Construction/Features:** Premium quality PVC tube and cover, reinforced with two spiral plies and longitudinal synthetic cords. Excellent as a portable hydrant or relay supply line hose, may be coiled or racked when wet, resists kinking and twisting, high working pressure and high ozone resistance.

**Applications:** Agricultural, quarry, irrigation, construction, mining and industrial applications for general water discharge.

**Temperature Range:** 5°F to 170°F.

**Lengths:** Standard lengths, also cut and/or coupled to individual customer requirements.

# No. BDLTB / BDLTC
# LOW TEMPERATURE PVC BLOWER DUCT

**Series "BDLTB" Solid Black Color**

**Series "BDLTC" Clear with Black Helix**

| Part Number | Inside Diameter | Outside Diameter | Working Pressure PSI@68°F | Working Pressure PSI@104°F | Vacuum In. Hg@68°F | Vacuum In. Hg@104°F | Min. Bend Radius | Weight LB/FT |
|---|---|---|---|---|---|---|---|---|
| BDLTB/C-400 | 4" | 4-37/64" | 8 | 4 | 13 | 7 | 3" | .85 |
| BDLTB/C-600 | 6" | 6-5/8" | 6 | 3 | 7 | 5 | 6" | 1.34 |
| BDLTB/C-700 | 7" | 7-9/16" | 4 | 2 | 6 | 4 | 7" | 1.53 |
| BDLTB/C-800 | 8" | 8-5/8" | 4 | 2 | 5 | 3 | 8" | 2.00 |

**Construction:** Made of PVC with smooth bore tube which allows full flow and resists material build-up, with corrugated cover. The extreme clarity of series "BDLTC" makes it most suitable for applications where visibility of flow is an important requirement.

**Recommended For:** General purpose low temperature PVC blower duct. Exposed helix provides for increased flexibility and slides easily for ease of handling.

**Temperature:** Static condition -20°F to 150°F.

**Lengths:** Standard 50 ft. for all sizes; and 100 ft. on sizes 4" and 6" ID, also cut and/or coupled to individual client's requirements.

**Couplings:** KC Nipples, Shank couplings, Cam & Groove, etc.

## No. PUVRH
## POLYURETHANE VAPOR RECOVERY HOSE

| Part Number | Inside Diameter | Outside Diameter | Min. Bend Radius | Weight LB/FT |
|---|---|---|---|---|
| PUVRH-200 | 2” | 2-15/32” | 3” | .40 |
| PUVRH-300 | 3” | 3-1/2” | 3-1/2” | .65 |
| PUVRH-400 | 4” | 7-9/16” | 4-1/2” | .95 |
| PUVRH-300HD | 3” | 8-5/8” | 4-1/2” | .82 |
| PUVRH-400HD | 4” | 4-5/8” | 5-1/2” | 1.11 |

**Construction:** Constructed of non-permeable clear polyurethane to provide excellent resistance to hydrocarbon vapors. The exposed PVC helix provides high abrasion and scuff resistance and slides easily, for easier handling. These vapor recovery hoses remain leak-resistant under the harshest of conditions.

**Recommended For:** Standard duty (PUVRH-xxx) is recommended for tank trucks. Heavy duty (PUVRH-xxxHD) is recommended for both tank trucks and terminal applications. The clear tube allows visual confirmation if fuel backs up into the vapor recovery system. The embedded copper grounding wire provides the safest way of grounding a hose assembly for vapor transfer.

**Temperature:** Static condition -40°F to 150°F.

**Lengths:** Standard 60 ft. and 100 ft. for all sizes; also cut and/or coupled to individual client’s requirements.

**Couplings:** KC Nipples, Shank couplings, Cam & Groove, etc.

## CARE, MAINTENANCE AND STORAGE OF ACCORD HOSE ASSEMBLIES


Proper storage conditions and handling procedures can enhance and substantially extend the ultimate life of Accord's hose assemblies.

Hoses have limited life and the user must be alert to signs of impending failure. The service life of our hose is dependent upon the user's application. Since we have no control over the way in which the hose is used, we do not warrant our hose for any particular service life.

Accord's hose assemblies should not be subjected to any form of abuse in storage or service.

Care should be taken to protect the hose from heavy load factors. Hose should be stored flat on smooth surfaces, and should not be stacked more than six coils high. Stacking hose higher than this could cause the compression load factor on the bottom coil to exceed the hose's design load limitations, causing the bottom coil to flatten out.

Hose should not be stored outdoors due to potential damage from the elements, which may shorten hose life.

Hose should not be stored in an upright manner, as this can cause the round coils to become egg shaped, and that stress can cause a deterioration of the hose.

Hose should not be kinked or run over by any equipment. In the handling of larger ID hose, dollies should be used in transporting whenever possible. Slings or handling rigs, properly placed, should be used to support heavier hose, as there is no fabric or wire reinforcements in the hose to provide longitudinal support.

## CHEMICAL RESISTANCE GUIDE

Many new materials have been developed to handle the wide range of modern chemicals being used in industry today. Many of these materials being used in the construction of Accord's hose assemblies.

The Chemical Resistance Guide which appears on the following pages has been prepared to assist the user in the selection of the correct hose for the application.

These recommendations are based on laboratory and test reports which are, to the best of our knowledge, complete and accurate. However, the degree of chemical resistance of any given material depends upon many variables, including such factors as length of exposure, temperature, pressure, fluid velocity, and chemical concentration.

Therefore, no guarantee is expressed or implied by our publication of this Chemical Resistance Guide. If an element of doubt exists, we advise that a sample of the specific hose selected be obtained and tested under actual conditions.

Furthermore, listings in this Chemical Resistance Guide do not imply conformance to any U. S. Department of Agriculture (USDA), Food and Drug Administration (FDA) or any other federal, provincial or state laws which may be applicable when handling food products. For additional information, please contact Accord International, Inc.'s technical sales department.

### WARNING

The Chemical Resistance Guide shown on the following pages is intended for general guidance only. The information contained therein is based upon tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No warranty is expressed or implied, as specific application parameters, such as temperature, pressure and chemical concentrations vary widely. Furthermore, use of these hoses for handling multiple chemical products, either singly or as a mixture, may introduce uncontrollable factors relating to chemical resistance.

**Before using any hose, the user is responsible for determining the suitability of the hose for the intended application. Therefore, the user assumes all risk and responsibility for determining the suitability of any hose for handling any chemical or chemicals.**

**The following materials are used in the construction of Accord hose assemblies:**

**PVC** = Polyvinyl Chloride; **PVC/PU Blend** = Polyvinyl Chloride and Polyurethane blend;

**LDPE** = Low Density Polyethylene; **EVA** = Ethylene-Vinyl Acetate; **TPU** = Thermoplastic Polyurethane

# PVC Hose Chemical Resistance Chart

**KEY: E = Excellent; G = Good; L = Limited; U = Unsatisfactory; C = Cautionary; - = Insufficient Information**

| Chemical/Product Conveyed | PVC | | PVC/PU Blend | | LDPE | | EVA | | TPU | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F |
| Acetaldehyde | U | U | U | U | G | L | G | U | U | U |
| Acetate Solvents - Pure | U | U | U | U | E | G | L | U | L | U |
| Acetic Acid - Glacial | L | U | L | U | L | U | U | U | U | U |
| Acetic Acid 0-10% | E | G | G | G | E | G | E | E | U | U |
| Acetic Acid 10-20% | G | L | G | G | E | G | E | G | U | U |
| Acetic Acid 20-30 Pct | G | L | G | L | E | G | E | L | U | U |
| Acetic Acid 30-60% | G | L | G | L | G | L | L | U | U | U |
| Acetic Acid 80% | L | L | L | L | U | U | L | U | U | U |
| Acetic Acid Vapors | G | G | G | G | G | L | G | L | U | U |
| Acetic Anhydride | U | U | U | U | U | U | L | L | U | U |
| Acetone | U | U | U | U | E | G | L | U | L | U |
| Acetylene | C | C | C | C | U | U | U | U | C | C |
| Acrylonitrile | L | U | L | U | – | – | – | – | – | – |
| Adipic Acid | G | L | G | L | E | G | E | G | U | U |
| Alcohol (See Type) | – | – | – | – | – | – | – | – | – | – |
| Allyl Alcohol 96% | U | U | U | U | E | G | E | G | U | U |
| Allyl Chloride | U | U | U | U | G | L | L | U | U | U |
| Alum | E | E | E | E | E | E | E | G | E | E |
| Aluminum Chloride | E | E | E | E | G | G | G | C | G | G |
| Aluminum Fluoride | G | G | G | G | G | G | G | L | G | L |
| Aluminum Hydroxide | E | E | E | E | G | G | G | G | G | L |
| Aluminum Nitrate | E | E | E | E | E | E | E | – | L | L |
| Aluminum Oxychloride | E | E | E | E | G | G | G | – | – | – |
| Aluminum Sulfate | E | E | E | E | E | E | E | | G | G |
| Ammonia - Aqueous | L | U | L | U | E | G | E | – | U | U |
| Ammonia - Dry Gas | L | U | L | U | E | G | E | – | U | U |
| Ammonia - Liquid | U | U | U | U | E | L | E | U | U | U |
| Ammonium Carbonate | E | E | E | E | E | E | E | – | E | E |
| Ammonium Chloride | E | E | E | E | E | E | E | – | G | L |
| Ammonium Fluoride 25% | U | U | U | U | G | G | G | – | L | U |
| Ammonium Hydroxide 28% | L | U | L | U | E | E | E | E | L | U |
| Ammonium Metaphosphate | E | E | E | E | G | G | E | E | G | G |
| Ammonium Nitrate | E | E | E | E | E | E | E | – | G | G |
| Ammonium Persulfate | E | E | E | E | E | E | E | – | G | G |
| Ammonium Phosphate | G | G | G | G | E | G | E | – | G | G |
| Ammonium Phosphate – Neutral | E | E | E | E | E | G | E | – | G | G |
| Ammonium Sulfate | E | E | E | E | E | E | E | – | E | E |
| Ammonium Sulfide | E | E | E | E | E | E | E | – | E | E |
| Ammonium Thiocyanate | E | E | E | E | E | E | E | – | G | G |
| Amyl Acetate | U | U | U | U | L | U | U | – | U | U |
| Amyl Alcohol | L | U | L | U | G | L | G | L | U | U |
| Amyl Chloride | U | U | U | U | U | U | U | – | – | – |
| Aniline | U | U | U | U | U | U | U | U | U | U |
| Aniline Chlorohydrate | U | U | U | U | U | U | U | U | U | U |
| Aniline Hydrochloride | U | U | U | U | U | U | U | U | U | U |
| Animal Oils | L | U | L | U | L | U | L | U | G | L |
| Anthraquinone | E | E | E | E | E | E | E | – | – | – |
| Anthraqunonesulfonic Acid | E | E | E | E | E | E | E | – | U | U |
| Antimony Trichloride | E | E | E | E | E | E | E | – | E | E |
| Apple (Sauce or Juice) | E | E | – | – | E | E | – | – | – | – |
| Aqua Regia | L | U | L | U | U | U | U | U | U | U |
| Aromatic Hydrocarbons | U | U | – | – | – | – | – | – | – | – |
| Arsenic Acid 80% | E | G | E | G | E | G | G | – | U | U |
| Arylsulfonic Acid | L | U | L | U | – | – | – | – | U | U |
| Asphalt | L | U | L | U | L | U | U | U | G | L |
| ASTM #1 Oil | L | U | L | U | – | – | – | – | G | G |
| ASTM #3 Oil | L | U | L | U | – | – | – | – | G | G |
| ASTM Fuel A | L | U | L | U | – | – | – | – | G | G |
| ASTM Fuel B | U | U | U | U | – | – | – | – | G | L |
| ASTM Fuel C | U | U | U | U | – | – | – | – | G | L |
| Barium Carbonate | E | E | E | E | E | E | E | – | E | E |
| Barium Chloride | E | E | E | E | E | E | E | – | E | E |
| Barium Hydroxide | E | E | E | E | E | E | E | – | G | L |
| Barium Sulfate | E | E | E | E | E | E | E | – | E | E |
| Barium Sulfide | E | E | E | E | E | E | E | – | E | E |
| Beer | E | L | – | – | E | L | – | – | – | – |

# PVC Hose Chemical Resistance Chart

**KEY: E = Excellent; G = Good; L = Limited; U = Unsatisfactory; C = Cautionary; - = Insufficient Information**

| Chemical/Product Conveyed | PVC | | PVC/PU Blend | | LDPE | | EVA | | TPU | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F |
| Beet-Sugar Liquor | E | E | – | – | E | E | E | – | – | – |
| Benzaldehyde | U | U | U | U | E | G | L | U | U | U |
| Benzene | U | U | L | U | E | L | U | U | L | U |
| Benzoic Acid | G | L | G | L | G | G | G | – | U | U |
| Benzol | U | U | L | U | U | U | U | U | L | U |
| Bismuth Carbonate | E | E | E | E | E | E | E | – | E | E |
| Black Liquor (Paper industry) | E | E | E | E | E | E | E | – | – | – |
| Bleach - 12.5% Active CL | G | L | G | L | G | L | G | – | L | U |
| Borax | E | E | E | E | E | E | E | – | E | E |
| Boric Acid | E | E | E | E | E | E | E | – | G | U |
| Boron Trifluoride | E | E | E | E | E | E | E | – | E | E |
| Brake Fluid | U | U | U | U | – | – | – | – | U | U |
| Brine | E | E | E | E | E | E | E | – | G | U |
| Bromic Acid | E | L | E | L | G | G | G | – | U | U |
| Bromine - Liquid | U | U | U | U | U | U | U | U | U | U |
| Bromine - Water | U | U | U | U | U | U | U | U | U | U |
| Butadiene | L | U | L | L | U | U | U | U | – | – |
| Butane | C | C | C | C | U | U | U | U | C | C |
| Butanol - Primary | U | U | U | U | E | G | G | – | L | U |
| Butanol - Secondary | U | U | U | U | E | G | G | – | L | U |
| Butter | L | L | – | – | L | L | – | – | – | – |
| Butyl Acetate | U | U | L | U | U | U | U | U | L | U |
| Butyl Alcohol | L | U | L | L | E | G | E | – | L | U |
| Butyl Cellosolve | U | U | U | U | E | G | – | – | – | – |
| Butyl Phenol | L | U | L | U | U | U | U | U | – | – |
| Butylene | C | C | C | C | U | U | – | – | C | C |
| Butyric Acid 20% | L | U | L | U | U | U | U | U | L | U |
| Calcium Bisulfite | E | E | E | E | E | E | E | – | E | E |
| Calcium Carbonate | E | E | E | E | E | E | E | – | E | E |
| Calcium Chlorate | E | E | E | E | E | E | E | – | G | L |
| Calcium Chloride | E | E | E | E | E | E | E | – | E | G |
| Calcium Hydroxide | E | E | E | E | E | E | E | – | G | L |
| Calcium Hypochlorite | E | E | E | E | G | E | G | – | U | U |
| Calcium Nitrate | E | E | E | E | E | E | E | – | E | E |
| Calcium Sulfate | E | E | E | E | E | E | E | – | E | E |
| Cane Sugar Liquors | E | E | – | – | G | G | G | – | – | – |
| Carbon Bisulfide | U | U | U | U | U | U | U | U | – | – |
| Carbon Dioxide (Aqueous Solution) | E | E | E | E | E | E | E | – | E | E |
| Carbon Dioxide Gas (Wet) | E | E | E | E | E | E | E | – | E | E |
| Carbon Monoxide | E | E | E | E | G | G | G | – | E | E |
| Carbon Tetrachloride | U | U | L | U | L | U | U | U | L | U |
| Carbonic Acid | L | U | G | G | G | G | G | G | U | U |
| Casein | E | L | E | E | E | E | E | – | E | E |
| Castor Oil | E | E | E | E | L | U | L | U | E | E |
| Catsup | E | G | – | – | – | – | – | – | – | – |
| Caustic Potash | E | E | E | E | L | L | L | – | L | U |
| Caustic Soda | E | E | E | E | L | L | G | – | L | U |
| Cellosolve | L | U | G | L | G | L | L | U | G | L |
| Chloracetic Acid | E | U | E | U | G | L | U | U | U | U |
| Chloral Hydrate | E | E | E | E | U | U | L | U | G | L |
| Chloric Acid 20% | E | E | E | E | – | – | – | – | U | U |
| Chlorinated Hydrocarbons | U | U | U | U | U | U | U | U | U | U |
| Chlorine Gas (Dry) | G | G | G | G | U | U | U | U | U | U |
| Chlorine Gas (Moist) | L | U | L | L | U | U | U | U | U | U |
| Chlorine Water 2% | G | L | G | L | G | L | G | L | L | U |
| Chlorine Water Saturated | L | U | L | U | E | G | E | L | – | – |
| Chlorobenzene | U | U | U | U | U | U | U | U | U | U |
| Chloroform | U | U | U | U | L | U | U | U | U | U |
| Chlorsulfonic Acid | L | U | L | U | U | U | U | U | U | U |
| Chrome Alum | E | E | E | E | E | G | E | G | E | E |
| Chromic Acid 10% | G | L | G | L | G | L | G | – | U | U |
| Chromic Acid 25% | G | L | G | L | G | L | G | – | U | U |
| Chromic Acid 30% | L | U | L | U | L | U | L | U | U | U |
| Chromic Acid 40% | L | U | L | U | L | U | L | U | U | U |
| Chromic Acid 50% | L | U | L | U | L | U | L | U | U | U |
| Chromic Acid Plating Solution | – | – | – | – | – | – | E | E | U | U |

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| Chemical/Product Conveyed | PVC | | PVC/PU Blend | | LDPE | | EVA | | TPU | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F |
| Cider | E | L | – | – | E | G | E | L | – | – |
| Citric Acid | E | E | E | E | E | E | E | E | U | U |
| Coal Tar | U | U | U | U | U | U | U | U | U | U |
| Coconut Oil | G | L | E | G | G | L | L | U | E | E |
| Copper Chloride | E | E | E | E | E | E | E | – | E | E |
| Copper Cyanide | E | E | E | E | E | E | E | – | – | – |
| Copper Fluoride 2% | E | E | E | E | E | E | E | – | E | E |
| Copper Nitrate | E | G | E | E | E | G | E | – | E | E |
| Copper Sulfate | E | G | E | E | E | E | E | – | E | E |
| Corn Oils | E | G | – | – | L | U | – | – | – | – |
| Cottonseed Oil | G | L | E | E | E | G | E | – | E | E |
| Creosote | U | U | U | U | U | U | U | U | – | – |
| Cresol | U | U | – | – | U | U | U | U | L | U |
| Cresylic Acid 50% | U | U | L | L | U | U | U | U | U | U |
| Crude Oil - Sour | L | U | L | U | U | U | U | U | E | E |
| Crude Oil - Sweet | L | U | L | U | U | U | U | U | E | E |
| Cyclohexane | U | U | U | U | G | G | L | U | G | L |
| Cyclohexanol | U | U | U | U | G | L | E | L | L | U |
| Cyclohexanone | U | U | U | U | G | L | E | L | U | U |
| Demineralized Water | E | E | E | E | E | E | E | E | E | L |
| Dextrin | E | E | E | E | E | E | E | – | E | E |
| Dextrose | E | G | – | – | E | E | E | – | E | E |
| Di-acetone Alcohol | – | – | – | – | E | G | – | – | – | – |
| Diazo Salts | E | E | E | E | E | G | E | – | – | – |
| Dichlorobenzene | U | U | U | U | L | U | U | U | – | – |
| Diesel Oils | L | U | L | U | – | – | – | – | G | L |
| Diethyl Ether | U | U | U | U | G | L | U | U | G | L |
| Diethylene Glycol | G | L | G | L | E | G | G | L | U | U |
| Diglycolic Acid | E | G | E | E | E | G | E | – | – | – |
| Di-isodecyl Phthalate | U | U | – | – | – | – | – | – | – | – |
| Dimethylamine | U | U | U | U | U | U | U | U | U | U |
| Dioctyl Phthalate | U | U | U | U | G | L | G | U | – | – |
| Disodium Phosphate | E | E | E | E | E | E | E | – | E | E |
| Distilled Water | E | E | E | E | E | E | E | E | E | L |
| Ethers | U | U | L | U | G | L | U | U | G | L |
| Ethyl Acetate | U | U | L | U | E | G | L | U | L | U |
| Ethyl Acrylate | U | U | U | U | – | – | – | – | – | – |
| Ethyl Alcohol 0-50% | G | L | E | G | E | E | G | L | G | L |
| Ethyl Alcohol 50-98% | L | U | G | L | E | G | L | U | E | G |
| Ethyl Chloride | U | U | U | U | U | U | U | U | U | U |
| Ethyl Ether | U | U | U | U | U | U | U | U | G | L |
| Ethylene Bromide | E | U | U | U | U | U | U | U | U | U |
| Ethylene Dichloride | U | U | U | U | U | U | U | U | U | U |
| Ethylene Glycol | E | E | E | E | E | G | E | G | G | L |
| Ethylene Oxide | U | U | U | U | U | U | U | U | U | U |
| Fatty Acids | E | E | E | E | G | L | L | U | G | L |
| Ferric Chloride | E | E | E | E | E | E | E | – | E | E |
| Ferric Nitrate | E | E | E | E | E | E | E | – | E | E |
| Ferric Sulfate | E | E | E | E | E | E | E | – | E | E |
| Ferrous Chloride | E | E | E | E | E | E | E | – | E | E |
| Ferrous Sulfate | E | E | E | E | E | E | E | – | E | E |
| Fish Solubles | E | E | E | U | E | E | E | – | E | G |
| Fluorine Gas - Dry | U | U | U | U | U | U | U | U | U | U |
| Fluorine Gas - Wet | U | U | U | U | U | U | U | U | U | U |
| Fluoroboric Acid | E | E | E | E | E | G | E | – | E | E |
| Fluorosilicic Acid | E | E | E | E | G | L | G | – | U | U |
| Foric Acid | E | L | E | L | E | G | E | E | U | U |
| Formaldehyde (40% Aqueous) | U | U | G | G | G | L | E | G | – | – |
| Formic Acid 3% | – | – | – | – | – | – | E | E | – | – |
| Formic Acid 10% | – | – | – | – | – | – | E | E | – | – |
| Formic Acid 25% | – | – | – | – | – | – | E | E | – | – |
| Formic Acid 50% | – | – | – | – | – | – | E | E | – | – |
| Formic Acid 100% | – | – | – | – | – | – | U | U | – | – |
| Freon-12 | L | U | G | L | G | L | G | – | E | E |
| Fructose | E | E | – | – | E | E | E | – | E | E |
| Fruit Pulps and Juices | E | E | – | – | E | E | E | – | E | E |

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| Chemical/Product Conveyed | PVC | | PVC/PU Blend | | LDPE | | EVA | | TPU | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F |
| Fuel Oil | G | L | G | L | G | U | U | U | E | G |
| Furfural | U | U | U | U | U | U | U | U | U | U |
| Furfuryl Alcohol | – | – | – | – | – | – | U | U | – | – |
| Gallic Acid | E | E | E | E | E | E | E | – | – | – |
| Gas - Coke Oven | G | G | G | G | – | – | – | – | G | G |
| Gas - Natural (Dry) | C | C | C | C | U | U | U | U | C | C |
| Gas - Natural (Wet) | C | C | C | C | U | U | U | U | C | C |
| Gasoline | U | U | U | U | G | L | – | – | E | G |
| Gasoline - Refined | L | U | G | U | L | U | U | U | E | G |
| Gasoline - Sour | L | U | G | U | U | U | U | U | E | G |
| Gelatine | E | E | E | E | E | E | E | – | E | E |
| Glucose | E | E | E | E | E | E | E | – | E | E |
| Glycerine (Glycerol) | E | E | E | E | E | E | E | – | E | E |
| Glycol | E | E | E | E | E | E | E | – | G | G |
| Glycolic Acid 30% | E | E | E | E | E | E | E | – | U | U |
| Grease | E | L | E | G | – | – | – | – | E | G |
| Green Liquor (Paper industry) | E | E | E | E | E | E | E | – | – | – |
| Heptane | L | U | G | U | U | U | U | U | E | – |
| Hexadecanol | – | – | – | – | – | U | U | U | – | – |
| Hexane | L | U | L | U | E | E | – | – | – | – |
| Hexanol, Tertiary | L | U | L | U | G | L | L | U | G | – |
| Hydrobromic Acid 20% | E | G | E | G | G | G | G | – | U | U |
| Hydrochloric Acid 10% | E | G | E | G | E | E | E | E | U | U |
| Hydrochloric Acid 48% | E | G | E | G | E | G | G | – | U | U |
| Hydrofluoric Acid 4% | G | G | G | G | G | G | E | E | U | U |
| Hydrofluoric Acid 10% | G | L | G | L | G | G | E | E | U | U |
| Hydrofluoric Acid 48% | G | U | G | L | G | L | E | E | U | U |
| Hydrofluoric Acid 60% | G | U | G | U | G | L | E | E | U | U |
| Hydrofluorosilic Acid | G | L | G | L | – | – | – | – | U | U |
| Hydrogen | C | C | C | C | C | C | C | – | C | C |
| Hydrogen Bromide (Dry) | – | – | – | – | – | – | E | E | – | – |
| Hydrogen Chloride (Dry) | – | – | – | – | – | – | E | E | – | – |
| Hydrogen Cyanide | C | C | C | C | C | C | C | C | U | U |
| Hydrogen Peroxide 3 -12% | E | G | E | G | G | L | G | L | G | L |
| Hydrogen Peroxide 30% | E | G | E | G | G | L | G | L | G | L |
| Hydrogen Peroxide 50% | E | L | E | L | L | U | U | U | L | U |
| Hydrogen Peroxide 90% | U | U | U | U | U | U | U | U | U | U |
| Hydrogen Phosphide | E | L | E | L | G | G | E | E | – | – |
| Hydrogen Sulfide (Aqueous Solution) | E | E | E | E | E | G | E | – | – | – |
| Hydrogen Sulfide - Dry | E | E | E | E | E | G | E | – | – | – |
| Hydrombromic Acid 20% | E | G | E | G | G | G | G | – | U | U |
| Hydroquinone | E | E | E | E | E | E | E | – | E | E |
| Hypochlorous Acid | E | E | E | E | E | G | L | U | L | U |
| Inks | – | – | – | – | E | E | E | E | – | – |
| Iodine (In Alcohol) | U | U | U | U | U | U | U | U | U | U |
| Iso-octane | L | U | L | U | – | – | – | – | – | – |
| Isopropyl Acetate | U | U | – | – | – | – | – | – | – | – |
| Isopropylalcohol | E | G | E | G | E | E | E | – | – | – |
| Jelly | E | E | – | – | – | – | – | – | – | – |
| Jet Fuels JP 3, 4, 5 | U | U | U | U | – | – | – | – | G | L |
| Kerosene | U | U | L | U | L | U | U | U | E | G |
| Ketones | U | U | U | U | E | G | L | U | G | L |
| Kraft Liquor (Paper industry) | E | E | E | E | E | G | G | – | – | – |
| Lacquer Thinners | U | U | U | U | E | G | L | U | G | – |
| Lactic Acid 28% | E | E | E | E | E | E | E | – | L | U |
| Lard Oil | E | G | E | E | G | L | G | L | E | G |
| Lauric Acid | E | E | E | E | L | U | – | – | L | U |
| Lauryl Chloride | E | E | E | E | L | U | L | – | E | G |
| Lauryl Sulfate | E | E | E | E | U | U | U | U | – | – |
| Lead Acetate | E | E | E | E | E | E | E | – | E | E |
| Lead Arsenate | E | E | E | E | – | – | E | E | – | – |
| Lead Nitrate | E | E | E | E | – | – | E | E | – | – |
| Lead Tetra-ethyl | E | E | E | E | – | – | E | E | – | – |
| Lemon Juice | E | G | – | – | – | – | – | – | – | – |
| Lime Sulfur | E | E | E | E | G | G | G | – | – | – |
| Linoleic Acid | E | E | E | E | – | – | – | – | L | U |

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| Chemical/Product Conveyed | PVC | | PVC/PU Blend | | LDPE | | EVA | | TPU | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F |
| Linseed Oil | E | E | E | E | L | U | L | U | E | E |
| Liquors (Chemical) | E | G | E | G | E | G | E | G | – | – |
| Lubricating Oils | G | L | G | G | U | U | U | U | E | E |
| Magnesium Carbonate | E | E | E | E | E | E | E | – | E | E |
| Magnesium Chloride | E | E | E | E | E | E | E | – | E | E |
| Magnesium Hydroxide | E | E | E | E | E | E | E | – | G | L |
| Magnesium Nitrate | E | E | E | E | E | E | E | – | E | E |
| Magnesium Sulfate | E | E | E | E | E | E | E | – | E | E |
| Maleic Acid 25% Aqueous | E | E | E | E | G | G | E | E | L | U |
| Maleic Acid 50% | – | – | – | – | E | E | E | E | – | – |
| Maleic Acid Concentrated | – | – | – | – | E | G | E | G | – | – |
| Malic Acid | E | E | E | E | G | G | G | – | L | U |
| Mayonnaise | E | E | – | – | – | – | – | – | – | – |
| Mercuric Chloride | G | L | G | G | G | G | G | G | G | L |
| Mercuric Cyanide | U | U | U | U | G | G | G | G | – | – |
| Mercurous Nitrate | G | G | G | G | G | G | G | – | G | G |
| Mercury | G | G | G | G | G | G | G | L | – | – |
| Methyl Acetate | U | U | U | U | – | – | U | U | – | – |
| Methyl Alcohol | L | U | L | U | E | G | E | – | L | U |
| Methyl Bromide | U | U | U | U | – | – | U | U | – | – |
| Methyl Chloride | U | U | U | U | U | U | U | U | U | U |
| Methyl Ethyl Ketone | U | U | U | U | E | G | L | U | L | U |
| Methyl Isobutyl Ketone | U | U | U | U | E | G | L | U | – | – |
| Methyl Sulfate | E | G | E | G | – | – | – | – | E | G |
| Methyl Sulfuric Acid | E | E | E | E | G | G | E | E | U | U |
| Methylated Spirit | – | – | – | – | – | – | E | G | – | – |
| Methylene Chloride | U | U | L | U | U | U | U | U | U | U |
| Milk | E | E | – | – | E | E | G | L | – | – |
| Mineral Oils | G | L | E | E | L | U | L | U | E | E |
| Mineral Spirits | – | – | – | – | E | G | – | – | – | – |
| Molasses | E | E | E | E | E | E | E | – | E | E |
| Monochlorobenzene | U | U | U | U | – | – | – | – | – | – |
| Naphtha | U | U | L | U | G | L | U | U | G | U |
| Napthalene | U | U | U | U | L | U | U | U | – | – |
| Nickel Acetate | E | E | E | E | E | E | E | – | E | E |
| Nickel Chloride | E | E | E | E | E | E | E | – | E | E |
| Nickel Nitrate | E | E | E | E | E | E | E | – | E | E |
| Nickel Sulphate | E | E | E | E | E | E | E | – | E | E |
| Nicotine | E | E | E | E | E | E | E | – | C | C |
| Nicotine Acid | E | G | E | E | E | E | E | – | C | C |
| Nitric Acid (Anhydrous) | U | U | U | U | U | U | U | U | U | U |
| Nitric Acid 10% | E | G | G | L | G | G | G | G | U | U |
| Nitric Acid 25% | G | L | G | L | G | G | G | L | U | U |
| Nitric Acid 35% | G | L | G | L | G | U | L | U | U | U |
| Nitric Acid 40% | G | L | G | L | L | U | L | U | U | U |
| Nitric Acid 50% | G | U | G | U | L | U | L | U | U | U |
| Nitric Acid 60% | G | U | G | U | L | U | U | U | U | U |
| Nitric Acid 68% | L | U | L | U | U | U | U | U | U | U |
| Nitric Acid 70% | U | U | U | U | U | U | U | U | U | U |
| Nitrobenzene | U | U | U | U | U | U | U | U | U | U |
| Nitrous Oxide | E | E | E | E | – | – | – | – | E | E |
| Oils and Fats | E | G | E | E | G | L | G | U | E | E |
| Oils, Petroleum | E | G | E | E | G | L | G | U | E | E |
| Oleic Acid | G | L | G | L | L | U | U | U | U | U |
| Oleum | U | U | U | U | U | U | U | U | U | U |
| Orange Juice | E | E | – | – | G | L | – | – | – | – |
| Oxalic Acid | E | G | E | G | E | G | G | G | U | U |
| Oxygen | E | G | E | G | G | L | G | L | E | E |
| Ozone | L | U | L | U | L | U | U | U | – | – |
| Palmitic Acid 10% | E | E | E | E | G | L | E | G | U | U |
| Palmitic Acid 70% | L | U | L | U | G | U | L | U | U | U |
| Paraffin | E | G | E | G | G | L | L | U | E | G |
| Pentane | L | U | L | U | E | G | – | – | – | – |
| Peracetic Acid 40% | U | U | U | U | – | – | – | – | U | U |
| Perchlorethylene | U | U | U | U | – | – | – | – | – | – |
| Perchloric Acid 10% | G | L | G | L | G | G | G | G | U | U |

# PVC Hose Chemical Resistance Chart

**KEY: E = Excellent; G = Good; L = Limited; U = Unsatisfactory; C = Cautionary; - = Insufficient Information**

| Chemical/Product Conveyed | PVC | | PVC/PU Blend | | LDPE | | EVA | | TPU | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F |
| Perchloric Acid 70% | L | U | L | U | G | L | G | – | U | U |
| Petrol | U | U | U | U | – | – | U | U | – | – |
| Petroleum Ether | L | L | L | L | – | – | U | U | – | – |
| Phenol | U | U | U | U | U | U | U | U | U | U |
| Phenylhydrazine | U | U | U | U | L | U | – | – | – | – |
| Phenylhydrazine Hydrochloride | L | U | L | U | L | U | – | – | – | – |
| Phosgene (Gas) | C | C | C | C | – | – | C | U | – | – |
| Phosgene (Liquid) | U | U | – | – | – | – | – | – | – | – |
| Phosphoric Acid 0-25% | E | G | E | G | E | G | E | G | U | U |
| Phosphoric Acid 25-50% | E | G | E | G | E | G | E | G | U | U |
| Phosphoric Acid 50-90% | E | G | E | G | G | L | E | L | U | U |
| Phosphorus (Yellow) | G | L | G | L | L | L | U | U | – | – |
| Phosphorus Pentoxide | L | U | L | U | G | L | G | L | – | – |
| Phosphorus Trichloride | U | U | U | U | L | U | L | U | – | – |
| Photographic Developers | L | U | L | U | E | E | E | E | L | – |
| Photographic Emulsions | L | U | L | U | E | E | E | E | – | – |
| Photographic Fixers | L | U | L | U | E | E | E | E | – | – |
| Picric Acid | U | U | U | U | G | U | G | L | U | U |
| Pitch | G | L | G | L | E | G | – | – | – | – |
| Plating Solutions… | | | | | | | | | | |
| Brass | E | E | E | E | G | G | L | – | E | E |
| Cadmium | E | E | E | E | G | G | L | – | E | E |
| Chromium | G | G | G | G | U | U | U | U | G | G |
| Copper | E | E | E | E | G | G | L | – | E | E |
| Gold | E | E | E | E | G | G | L | – | E | E |
| Judium | E | E | E | E | G | G | L | – | E | E |
| Lead | E | E | E | E | G | G | L | – | E | E |
| Nickel | E | E | E | E | G | G | L | – | E | E |
| Rhodium | E | E | E | E | G | G | L | – | E | E |
| Silver | E | E | E | E | G | G | L | – | E | E |
| Tin | E | E | E | E | G | G | L | – | E | E |
| Zinc | E | G | E | E | G | G | L | – | E | E |
| Potable Water | E | G | – | – | E | E | E | G | – | – |
| Potassium Acid Sulfate | E | E | E | E | E | G | G | – | E | E |
| Potassium Antimonate | E | E | E | E | E | E | E | – | E | E |
| Potassium Bicarbonate | E | E | E | E | E | E | E | – | E | E |
| Potassium Bichromate | E | E | E | E | E | E | E | – | E | E |
| Potassium Bisulfite | E | E | E | E | E | E | E | – | E | E |
| Potassium Bisulphate | G | L | – | – | E | E | E | – | – | – |
| Potassium Borate 1% | E | E | E | E | E | E | E | – | E | E |
| Potassium Bromate 10% | E | E | E | E | E | G | E | – | E | E |
| Potassium Bromide | E | E | E | E | E | G | E | – | E | E |
| Potassium Carbonate | E | E | E | E | E | E | E | – | E | E |
| Potassium Chlorate | E | E | E | E | E | E | E | – | G | G |
| Potassium Chloride | E | E | E | E | E | E | E | – | E | G |
| Potassium Chromate 40% | E | E | E | E | E | E | E | – | G | G |
| Potassium Cuprocyanide | E | E | E | E | E | E | E | – | – | – |
| Potassium Cyanide | C | C | C | C | C | C | C | C | C | C |
| Potassium Dichromate 40% | E | E | E | E | E | E | E | – | G | G |
| Potassium Ferricyanide | E | E | E | E | E | E | E | – | E | E |
| Potassium Fluoride | E | E | E | E | E | E | E | – | E | G |
| Potassium Hydroxide 10% | E | E | E | E | E | E | E | – | L | U |
| Potassium Hydroxide 20% | E | E | E | E | E | E | E | – | U | U |
| Potassium Hydroxide 35% | E | E | E | E | E | G | G | – | U | U |
| Potassium Hydroxide Conc. | – | – | – | – | – | – | E | L | – | – |
| Potassium Hypochlorite | G | L | G | L | G | L | E | – | U | U |
| Potassium Nitrate | E | E | E | E | G | G | E | E | E | E |
| Potassium Perborate | E | E | E | E | G | L | E | E | E | E |
| Potassium Perchlorite | E | E | E | E | G | G | G | – | G | L |
| Potassium Permanganate 10% | G | G | E | E | E | E | U | U | G | L |
| Potassium Persulfate | E | E | E | E | E | E | E | – | E | E |
| Potassium Phosphate | – | – | – | – | – | – | E | E | – | – |
| Potassium Sulfate | E | E | E | E | E | E | E | – | E | E |
| Potassium Sulfide | E | E | E | E | E | E | E | – | E | E |
| Potassium Thiosulfate | E | E | E | E | E | E | E | – | E | E |
| Power Steering Fluid | E | L | E | L | – | – | – | – | E | E |

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**KEY: E = Excellent; G = Good; L = Limited; U = Unsatisfactory; C = Cautionary; - = Insufficient Information**

| Chemical/Product Conveyed | PVC | | PVC/PU Blend | | LDPE | | EVA | | TPU | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F |
| Propane | C | C | C | C | U | U | U | U | C | C |
| Propargyl Alcohol | E | E | E | E | G | G | E | E | – | – |
| Propyl Alcohol | E | L | E | E | E | E | E | – | G | L |
| Propylene Dichloride | U | U | U | U | U | U | U | U | U | U |
| Propylene Glycol | – | – | – | – | – | – | E | E | – | – |
| Prune Juice | E | E | – | – | – | – | – | – | – | – |
| Ritchfield “A” Weed Killer | E | L | E | G | – | – | – | – | – | – |
| Salicylic Acid | – | – | – | – | – | – | E | E | – | – |
| Salt Water | E | E | E | E | E | E | E | E | E | L |
| Selenic Acid | E | G | E | G | G | L | G | L | U | U |
| Shortening | G | L | – | – | E | E | E | E | – | – |
| Silicic Acid | E | E | E | E | E | E | E | – | U | U |
| Silicone Fluids | – | – | – | – | – | – | E | E | – | – |
| Silver Cyanide | E | E | E | E | E | E | E | – | E | E |
| Silver Nitrate | E | E | E | E | E | E | E | – | E | E |
| Silver Plating Solutions | E | G | E | G | E | G | E | – | E | E |
| Soap Solution | E | G | E | G | G | L | G | L | G | U |
| Sodium Acetate | E | E | E | E | E | E | E | – | E | E |
| Sodium Acid Sulfate | E | E | E | E | E | E | E | – | E | E |
| Sodium Antimonate | E | E | E | E | E | E | E | – | E | E |
| Sodium Arsenite | E | E | E | E | E | E | E | – | E | E |
| Sodium Benzoate | E | G | E | E | E | E | E | – | E | E |
| Sodium Bicarbonate | E | E | E | E | E | E | E | – | E | E |
| Sodium Bisulfate | E | E | E | E | E | E | E | – | E | E |
| Sodium Bisulfite | E | E | E | E | E | E | E | – | E | E |
| Sodium Bromide | E | E | E | E | E | E | E | – | E | G |
| Sodium Carbonate (Soda Ash) | E | E | E | E | E | E | E | – | E | E |
| Sodium Chlorate | G | L | G | L | E | E | E | – | G | G |
| Sodium Chloride | E | E | E | E | E | E | E | – | E | G |
| Sodium Cyanide | E | E | E | E | E | E | E | – | E | E |
| Sodium Dichromate | E | G | E | G | E | E | E | – | E | G |
| Sodium Ferricyanide | E | E | E | E | E | E | E | – | E | E |
| Sodium Ferrocyanide | E | E | E | E | E | E | E | – | E | E |
| Sodium Fluoride | E | E | E | E | E | E | E | – | E | G |
| Sodium Hydroxide 10% | E | E | E | E | E | E | E | – | G | L |
| Sodium Hydroxide 35% | E | G | E | E | E | E | E | – | L | U |
| Sodium Hydroxide 50% | G | L | – | – | – | – | – | – | – | – |
| Sodium Hypochlorite | E | E | E | E | E | E | E | – | U | U |
| Sodium Nitrate | E | E | E | E | E | E | E | – | E | E |
| Sodium Nitrite | E | E | E | E | E | E | E | – | E | E |
| Sodium Phosphate-Acid | G | G | G | G | E | E | E | – | U | U |
| Sodium Silicate | E | E | E | E | E | E | E | – | E | E |
| Sodium Sulfate | E | E | E | E | E | E | E | – | E | E |
| Sodium Sulfide | E | E | E | E | E | E | E | – | E | E |
| Sodium Sulfite | E | E | E | E | E | E | E | – | E | E |
| Sodium Thisulfate (Hypo) | E | E | E | E | E | E | E | – | E | G |
| Soft Drinks | E | G | – | – | E | E | G | L | – | – |
| Soya Oil | E | G | – | – | – | – | – | – | – | – |
| Soybean Oil | G | L | – | – | – | – | – | – | – | – |
| Stannic Chloride | E | E | E | E | E | E | E | – | E | G |
| Stannous Chloride | E | G | E | G | E | E | E | – | E | G |
| Starch | – | – | – | – | – | – | E | E | – | – |
| Stearic Acid | L | L | L | L | E | E | E | – | L | U |
| Stoddard Solvent | L | U | G | L | G | L | L | U | G | U |
| Styrene | U | U | U | U | – | – | – | – | – | – |
| Sucrose | – | – | – | – | – | – | E | E | – | – |
| Sulfur | G | G | G | G | E | E | E | – | – | – |
| Sulfuric Acid 0-10% | E | G | E | G | E | G | G | – | U | U |
| Sulfuric Acid 10-40% | E | G | E | G | G | G | G | G | U | U |
| Sulfuric Acid 50-60% | E | G | E | G | G | L | G | L | U | U |
| Sulfuric Acid 70% | E | G | E | G | L | U | L | U | U | U |
| Sulfuric Acid 95% | U | U | U | U | U | U | U | U | U | U |
| Sulfuric Acid 95% to Fuming | L | L | L | L | U | U | U | U | U | U |
| Sulfurous Acid | E | E | E | E | G | L | L | U | U | U |
| Sulphur Dioxide - Liquid | L | U | L | U | U | U | U | U | – | – |
| Sulphur Dioxide Gas - Dry | E | E | E | E | G | G | E | G | – | – |

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| Chemical/Product Conveyed | PVC | | PVC/PU Blend | | LDPE | | EVA | | TPU | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F | 70°F | 150°F |
| Sulphur Dioxide Gas - Wet | L | U | L | U | G | L | E | L | – | – |
| Sulphur Trioxide | E | G | E | G | U | U | U | U | – | – |
| Sulphurous Acid 10% | – | – | – | – | – | – | E | E | – | – |
| Sulphurous Acid 30% | – | – | – | – | – | – | U | U | – | – |
| Tallow | – | – | – | – | – | – | E | U | – | – |
| Tannic Acid | E | E | E | E | E | E | E | E | L | U |
| Tanning Extracts | – | – | – | – | – | – | E | E | – | – |
| Tanning Liquors | E | E | E | E | G | L | L | – | – | – |
| Tartaric Acid | E | E | E | E | E | E | E | – | L | U |
| Tea (Brewed) | E | G | – | – | E | G | G | L | – | – |
| Tetraethyl Lead | G | L | G | G | – | – | – | – | G | G |
| Tetrahydrofurane | U | U | U | U | U | U | U | U | U | U |
| Thionyl Chloride | U | U | U | U | U | U | U | U | U | U |
| Tin Chloride | E | E | E | E | – | – | – | – | E | E |
| Titanium Tertachloride | E | U | E | U | – | – | – | – | L | U |
| Titanium Trichloride | – | – | – | – | – | – | U | U | – | – |
| Toluene or Toluol | U | U | L | U | E | G | U | U | L | U |
| Tomato Juice | E | E | – | – | G | L | L | U | – | – |
| Transformer Oil | – | – | – | – | – | – | U | U | – | – |
| Transmission Fluid | E | L | E | L | – | – | – | – | E | E |
| Tributyl Phosphate | U | U | U | U | – | – | – | – | – | – |
| Trichlorobenzene | U | U | U | U | – | – | U | U | – | – |
| Trichloroethylene | U | U | L | U | G | L | U | U | L | U |
| Tricresyl Phosphate | U | U | U | U | L | L | U | U | U | U |
| Triethanolamine | L | U | G | U | G | L | L | – | – | – |
| Triethylamine | G | L | G | L | – | – | – | – | – | – |
| Trimethyl Propane | L | U | L | U | – | – | – | – | – | – |
| Trisodium Phosphate | E | E | E | E | E | E | E | – | E | E |
| Turpentine | L | U | G | L | G | L | U | – | E | G |
| Urea | E | E | E | E | E | E | E | – | E | E |
| Urine | E | E | E | E | E | E | E | – | E | E |
| Varnish | U | U | U | U | G | L | U | U | E | G |
| Varsol | – | – | – | – | E | G | – | – | – | – |
| Vegetable Oils | G | L | G | L | – | – | U | U | – | – |
| Vinegar | E | E | – | – | E | G | E | – | G | L |
| Vinyl Acetate | U | U | U | U | L | U | U | U | U | U |
| Vinyl Chloride | U | U | U | U | – | – | – | – | – | – |
| Water-Acid Mine Water | E | E | E | E | E | E | E | – | G | U |
| Water-Distilled | E | E | E | E | E | E | E | – | G | U |
| Water-Fresh | E | E | E | E | E | E | E | – | G | U |
| Water-Salt | E | E | E | E | E | E | E | – | G | U |
| Whey | E | G | – | – | G | L | G | L | – | – |
| Whiskey | L | U | – | – | E | L | – | – | – | – |
| White Gasoline | E | E | E | E | U | U | U | U | E | G |
| White Liquor (Paper industry) | E | E | E | E | – | – | – | – | – | – |
| Wines | G | L | – | – | E | E | – | – | – | – |
| Xylene or Xylol | U | U | L | U | G | L | U | U | G | L |
| Zinc Chloride | E | E | E | E | E | E | E | – | E | E |
| Zinc Chromate | E | E | E | E | E | E | E | – | E | E |
| Zinc Cyanide | E | E | E | E | E | E | E | – | E | E |
| Zinc Nitrate | E | E | E | E | E | E | E | – | E | E |
| Zinc Sulfate | E | E | E | E | E | E | E | – | E | E |

## POLYETHYLENE VAPOR RECOVERY HOSE

## 2-PLY NEOPRENE POLYESTER DUCTING