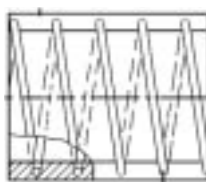


SUCTION/DELIVERY HOSE ARMORVIN® HNP Non Toxic



Characteristics: Highly flexible, robust, abrasion resistant. Good resistance to most chemicals (solvents). Smooth inside and outside. Temperature range: -5°C +65°C.

Applications: Suction of foodstuffs, drinkable water, drinks up to 28% alcohol contents, vacuum pumps, agricultural machines, irrigation plants, boat construction, chemical plants, plastics manufacturing machinery, sludge tankers.

Structure: Soft PVC hose with embedded steel wire reinforcement. Clear light green.

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I.D. mm	Wall Thickness mm	Weight gr./mtr.	Bending Radius mm	Vacuum m. H ₂ O	Working Pressure HNP bar	Coil Length mtr.
10	3	160	20	9.5	8	60
12	3	180	25	9.5	8	60
14	3.2	205	30	9.5	8	60
16	3.2	245	35	9.5	8	60
18	3.2	300	40	9.5	7	60
20	3.4	350	50	9.5	7	60
22	3.6	380	55	9.5	6	60
25	4	510	60	9.5	6	60
30	4.7	680	70	9.5	5	60
32	4.8	730	75	9.5	5	60
35	4.5	750	80	9.5	5	60
38	5.5	1100	90	9.5	5	30
40	6.5	1300	95	9.5	5	30
45	6.5	1450	110	9.5	5	30
50	7	1700	125	9	5	30
60	7.2	2150	140	9	5	30
63	7	2250	150	9	4	30
70	8	2600	180	9	4	30
75	8	2850	200	9	4	30
80	8	3200	220	9	3	30
90	8.5	3750	260	9	3	30
100	9.5	4300	300	9	3	30
105	9	4500	310	9	3	20
110	9.5	5000	320	9	3	20
120	9	5200	340	9	2	20
125	9.3	5400	350	9	2	20
150	9.5	7200	450	9	2	20

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All data refers to performance at 18°C. Any increase of temperature, above or below, will affect the performance data.

PLEASE SEE FOLLOWING PAGE FOR FURTHER DETAILS CATALOGUE

CHEMICAL RESISTANCE GUIDE TO PVC HOSES

CHEMICAL AND CONCENTRATION	20°C	60°C	CHEMICAL AND CONCENTRATION	20°C	60°C	CHEMICAL AND CONCENTRATION	20°C	60°C
Acetic acid 10%	✓	LL	Diethyl ether	X	X	Oxalic acid	✓	TR
Acetic acid 60%	✓	LL	Dimethylamine	TR	TR	Oxygen	✓	✓
Acetic acid Glacial	X	X	Emulsifiers All Conc.	✓	✓	Ozone	✓	TR
Acetic anhydride	X	X	Emulsions, photographic	✓	✓	Palmitic acid	✓	TR
Aceton Traces	X	X	Ether	X	X	Paraffin	LL	TR
Aceton 100%	X	X	Ethyl acetate	X	X	Petrol	OH	OH
Adipic acid	TR	TR	Ethylene dichloride	X	X	Petrol benzene mixture 80:20	X	X
Alcohol allyl	X	X	Ethylene glycol	✓	TR	Phenol	TR	X
Alcohol ethyl 40% W/W Water	✓	TR	Fatty acids	TR	TR	Phosphoric acid 20% AQ. Soln	✓	✓
Alcohol ethyl 100%	✓	TR	Ferric salts	✓	✓	Phosphoric acid 30% AQ. Soln	✓	✓
Alcohol isopropyl	✓	TR	Fixing solution, photogr.	✓	✓	Photographic developers	✓	✓
Alcohol methyl 6% AQ. Soln	✓	✓	Fluorine	X	X	Photographic emulsions	✓	✓
Alcohol methyl 100%	LL	TR	Formaldehyde 40% W/W in Water	✓	X	Phot. fixing soln	✓	✓
Allyl chloride	X	X	Formic Acid 40%	TR	TR	Picric acid 1% W/W in Water	✓	✓
Aluminium salts	✓	✓	Formic Acid 50%	LL	X	Picric acid 10% W/W in Alcohol	✓	TR
Ammonia S.G.=088 AQ.SOLN	✓	X	Formic Acid 100%	X	X	Potassium hydroxide 1% AQ. Soln	✓	✓
Ammonia Dry Gas	TR	TR	Glucose	✓	✓	Potassium hydroxide 10% AQ. Soln	✓	✓
Ammonia Liquid	TR	TR	Glycerine	✓	TR	Potassium hydroxide Conc. AQ. Soln	✓	X
Ammonium hydroxide	✓	TR	Grape sugar	✓	✓	Potassium salts	✓	✓
Ammonium salts	✓	✓	Hydrochloric acid 10% AQ. Soln	✓	✓	Propane	OH	OH
Ammonium sulphide	✓	X	Hydrochloric acid 22%	✓	✓	Propylene dichloride	X	X
Aniline	X	X	Hydrochloric acid Conc.	✓	LL	Salicyclic acid	TR	TR
Animal oils	✓	TR	Hydrofluoric acid 4% AQ. Soln	✓	✓	Sea Water	✓	✓
Barium salts	✓	✓	Hydrofluoric acid 40% AQ. Soln	✓	TR	Soap solution	✓	TR
Beer	✓	TR	Hydrofluoric acid 60% AQ. Soln	X	X	Sodium hydroxide 1% AQ. Soln	✓	TR
Benzaldehyde Traces	X	X	Hydrofluoric acid Conc.	X	X	Sodium hydroxide 10% AQ. Soln	✓	LL
Benzaldehyde 100%	X	X	Hydrogen	✓	✓	Sodium hydroxide 40% AQ. Soln	✓	X
Benzene	X	X	Hydrogen bromide anhydrous	✓	TR	Sodium hydroxide Conc. AQ. Soln	✓	X
Borax	✓	TR	Hydrogen chloride anhydrous	✓	TR	Sodium hypochlorite 15% ACT. CL.	✓	LL
Brine	✓	✓	Hydrogen fluoride	✓	TR	Sodium salts	✓	✓
Bromine Gas, Traces	X	X	Hydrogen peroxide 3% (10 vol)	✓	TR	Sulphur dioxide Dry	✓	✓
Bromine 100% Dry Gas	X	X	Hydrogen peroxide 12% (40 vol)	✓	TR	Sulphur dioxide Moist	TR	X
Bromine Liquid	X	X	Hydrogen peroxide 30% (100 vol)	✓	TR	Sulphur dioxide Liquid	TR	X
Butane	TR	TR	Hydrogen peroxide 90% and above	✓	TR	Sulphuric acid 10%	✓	✓
Butanol	✓	TR	Hydrogen sulphite	✓	TR	Sulphuric acid 45%	✓	✓
Butyl acetate	X	X	Iodine Soln. in Potassium	TR	TR	Sulphuric acid 50%	✓	LL
Butyric acid 20% AQ. Soln	✓	TR	Iodine Iodide	X	X	Sulphuric acid 60%	LL	LL
Butyric acid Conc.	X	X	Lacquer solvents	LL	X	Sulphuric acid 98%	X	X
Calcium hydroxide	✓	TR	Lactic acid 10%	✓	TR	Sulphuric acid Fuming	X	X
Calcium hypochlorite	✓	TR	Lactic acid 100%	X	X	Sulphurous acid 30%	✓	TR
Calcium salts	✓	✓	Lauric acid	✓	TR	Tallow	✓	TR
Carbon dioxide	✓	✓	Lauryl alcohol	✓	✓	Tannic acid	✓	TR
Carbon disulphide	X	X	Lead salts	✓	✓	Tanning extracts	✓	TR
Carbon monoxide	✓	✓	Magnesium salts	✓	✓	Tartaric acid	✓	TR
Carbon tetrachloride	X	X	Manganese sulphate Conc. Soln	✓	✓	Tetraethyl lead	✓	TR
Casein	✓	✓	Mercuric chloride	X	X	Tetrahydrofuran	X	X
Chlorine 10% (Dry Gas)	TR	TR	Methyl chloride	X	X	Tetralin	X	X
Chlorine 100% (Dry Gas)	TR	TR	Methyl ethyl ketone	X	X	Toluene	X	X
Chlorine 10% (Moist Gas)	TR	TR	Methylene chloride	X	X	Transformer oil	OH	X
Chlorine Water Saturated Soln	LL	X	Milk	✓	TR	Trichlorethane	X	X
Chlorobenzene	X	X	Mineral oils	OH	OH	Triethanolamine	✓	✓
Chloroform	X	X	Mixed acids (sulphuric/nitric) var. prop.	✓	X	Trichlorethylene	X	X
Chlorosulphonic acid	X	X	Molasses	✓	✓	Triethylamine	TR	TR
Chromic acid Plating Soln	X	X	Napthalene	X	X	Turpentine	TR	TR
Chromic acid Conc.	TR	TR	Nickel salts	✓	✓	Urea	✓	TR
Citric acid	✓	TR	Nitric acid 10%	✓	TR	Vegetable oils	✓	TR
Copper salts	✓	✓	Nitric acid 25%	✓	TR	Vinegar	✓	TR
Cyclohexanol	X	X	Nitric acid 50%	✓	LL	Vinyl acetate	X	X
Cyclohexanone	X	X	Nitric acid 70%	LL	X	Water	✓	✓
Detergents, synthetic All Conc.	✓	TR	Nitric acid 95%	X	X	Wetting agents All Conc.	✓	✓
Developers, photographic	✓	✓	Nitrobenzene	X	X	Wines and Spirits	✓	TR
Dextrose	✓	✓	Nitrogen fertilizers	✓	TR	Xylene	X	X
Dichloroethylene	X	X	Nitrous fumes Moist	TR	X	Zinc salts	✓	✓
Dichlorobenzene	X	X	Oleic acid	✓	TR			
Diesel oil	OH	OH						

✓ = Satisfactory X = Unsatisfactory

LL = The material may be considered for use when alternative materials are unsatisfactory and **LIMITED LIFE** is acceptable.

OH = Recommended for the service and conditions shown for oil hose.

TR = When PVC is to be used with such chemicals full-scale **TRIALS** are **REQUIRED** under realistic conditions.

This list is intended for general guidance only. The information provided therein is based on our knowledge and experience. No warranty can be given. As much depends upon the exact working conditions of each case.

CAUTION

Final selection of the correct hose is further dependent on pressure, temperature, fluid concentration and system conditions relative to climatic and weather conditions. If in doubt please consult us.

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