

CHEMICAL CHART

PU-BOOTS

NI-BOOTS



HYDROCARBONS (oils and solvents)	PU			
	POLIXANE	POLIXANE+	POLIXID	ERGONITRIL
Turpentine	2	2	2	2
ASTM 1 OIL	3	3	3	1
ASTM 2 OIL	X	X	X	X
ASTM 3 OIL	3	3	3	1
Benzene	1	1	1	X
Butane	2	2	2	X
Kerosene (domestic)	2	3	3	1
Cyclohexane	3	3	3	1
Chloroform	X	1	X	X
Benzyl Chloride	X	1	X	X
Methylene Chloride	X	1	X	X
Hexane	3	3	3	1
Gas oil	2	3	2	X
Grease (all kinds)	2	2	3	2
Isotane	2	3	3	X
Methyl Chloride	2	3	3	1
Oil mixture	3	3	3	2
Nitrobenzene	X	X	X	X
Animal oil	3	3	3	3
Coconut oil	2	2	3	3
Cod-liver oil	3	3	3	3
Linseed oil	2	2	3	1
Olive oil	3	3	3	3
Pine oil	3	3	3	3
Castor oil	2	2	3	3
Cottonseed oil	3	3	3	3
Silicone oil	3	3	3	3
Lard oil (158°F)	2	2	3	2
Hydraulic oil	3	3	3	2
Mineral oil	3	3	3	1
Vegetable oil	2	2	3	2
Perchlorethylene	2	3	3	2
Propane	2	3	3	X
Beef tallow (158°F)	3	3	3	3
Carbon tetrachloride	2	2	2	2
Toluene	2	3	3	X
Trychlorethylene	1	1	1	1
Xilene	X	X	X	X

SALTS AND ALKALIES	PU			
	POLIXANE	POLIXANE+	POLIXID	ERGONITRIL
Potassium dichromate	3	3	2	2
Calcium hypochlorite	3	3	3	3
Calcium chloride	3	3	2	3
Copper chloride	3	3	3	2
Ferric chloride	2	3	2	2
Ammonium hydroxide	3	3	3	3
Potassium hydroxide	2	3	2	2
Sodium hydroxide	2	3	3	3
Ammonium sulfate	3	3	3	3

ORGANIC ESTERS	PU			
	POLIXANE	POLIXANE+	POLIXID	ERGONITRIL
Amyl acetate	X	X	X	X
Butyl acetate	X	X	X	X
Ethyl acetate	1	2	1	1
Zinc acetate	2	2	2	2
Dibutyl phthalate	1	2	1	1
Ethyl formate	1	2	1	1
Methyl acetate	X	1	X	X
Propyl acetate	X	1	X	X
Tricresyl phosphate	2	2	2	2

INORGANIC ACIDS	PU			
	POLIXANE	POLIXANE+	POLIXID	ERGONITRIL
Bromidric acid	1	1	1	1
Hydrochloric acid conc.	2	2	3	3
Hydrofluoric acid	2	2	3	2
Phosphoric acid	1	1	1	2
Nitric acid 10%	2	2	2	3
Nitric acid conc.	1	1	1	1
Perchloric acid	1	2	2	1
Hydrogen sulphide	2	2	3	2
Sulphuric acid 50%	1	1	1	1
Sulphuric acid conc.	X	X	X	X
Chlorine water	2	2	2	2

ORGANIC ACIDS	PU			
	POLIXANE	POLIXANE+	POLIXID	ERGONITRIL
Acetic acid	2	2	2	2
Boric acid	2	2	2	3
Citric acid	3	3	3	3
Carbolic acid	1	2	3	1
Formic acid	2	2	2	2
Malic acid	3	3	3	3
Naphtenic acid	3	3	3	3
Oleic acid	1	2	2	1
Palmitic acid	2	2	2	3
Stearic acid (158°F)	1	1	2	1
Tannic acid	3	3	3	3

ALDEHYDES AND KETONES	PU			
	POLIXANE	POLIXANE+	POLIXID	ERGONITRIL
Acetaldehyde	X	X	X	X
Acetone	X	X	X	X
Benzaldehyde	X	X	X	X
Butyraldehyde	X	X	X	X
Chloracetone	X	X	X	X
Formaldehyde	3	3	3	3
Methyl ethyl Ketone	1	2	3	X

MIXTURES	PU			
	POLIXANE	POLIXANE+	POLIXID	ERGONITRIL
Acrylonitrile	1	1	1	1
Aniline	X	1	X	X
Butter (158°F)	2	3	3	2
Milk butter	3	3	3	3
Chlorobenzene	X	X	X	X
Chlorophenol	2	3	2	2
Cresol	2	3	2	1
Dibenzylether	2	2	2	2
Dichlorobenzene	X	X	X	X
Ethylether	1	1	1	1
Sodium hypochlorite	3	3	2	3
Milk	3	3	3	3
Monoethanolamine	2	2	2	2
Morpholine	X	X	X	X
Hydrogen peroxide	3	3	3	3
Soap	3	3	3	3
Paint remover	X	X	X	X

ALCOHOLS	PU			
	POLIXANE	POLIXANE+	POLIXID	ERGONITRIL
Amyl alcohol	2	2	2	1
Benzyl alcohol	2	2	2	1
Butyl alcohol	2	2	2	1
Ethyl alcohol	3	3	3	3
Methyl alcohol	2	3	2	2
Octyl alcohol	3	3	2	1
Propyl alcohol	2	3	3	3
Diacetone alcohol	1	1	1	1
Diethanolamine	3	3	3	3
Glycerine	3	3	3	3
Ethylene glycol	3	3	3	3
Triethanolamine	2	3	2	3

LEGEND

EXCELLENT	3
GOOD	2
FAIR	1
NOT RECOMMENDED	X

HYDROCARBONS (oils and solvents)	NITRILE outsole	PU upper
Turpentine	X	1
ASTM 1 OIL	3	3
ASTM 2 OIL	3	1
ASTM 3 OIL	3	3
Benzene	X	X
Butane	3	3
Kerosene (domestic)	3	3
Cyclohexane	3	3
Chloroform	X	X
Benzyl Chloride	1	X
Methylene Chloride	X	X
Hexane	3	3
Gas oil	3	3
Grease (all kinds)	3	3
Isotane	3	3
Methyl Chloride	1	1
Oil mixture	3	3
Nitrobenzene	X	X
Animal oil	3	3
Coconut oil	3	3
Cod-liver oil	3	3
Linseed oil	3	3
Olive oil	X	X
Pine oil	3	3
Castor oil	2	3
Cottonseed oil	3	3
Silicone oil	3	3
Lard oil (158°F)	3	3
Hydraulic oil	3	3
Mineral oil	3	3
Vegetable oil	3	3
Perchlorethylene	1	1
Propane	3	3
Beef tallow (158°F)	3	3
Carbon tetrachloride	X	X
Toluene	X	1
Trychlorethylene	X	1
Xilene	X	X

ORGANIC ACIDS	NITRILE outsole	PU upper
Acetic acid	2	2
Boric acid	3	3
Citric acid	3	3
Carbolic acid	2	1
Formic acid	3	3
Malic acid	3	3
Naphtenic acid	3	3
Oleic acid	3	1
Palmitic acid	3	3
Stearic acid (158°F)	1	2
Tannic acid	3	3

INORGANIC ACIDS	NITRILE outsole	PU upper
Bromidric acid	1	1
Hydrochloric acid conc.	1	1
Hydrofluoric acid	1	1
Phosphoric acid	1	1
Nitric acid 10%	1	1
Nitric acid conc.	X	X
Perchloric acid	1	1
Hydrogen sulphide	2	2
Sulphuric acid 50%	1	1
Sulphuric acid conc.	X	X
Chlorine water	2	2

ORGANIC ESTERS	NITRILE outsole	PU upper
Amyl acetate	X	X
Butyl acetate	X	X
Ethyl acetate	1	1
Zinc acetate	3	3
Dibutyl phthalate	1	1
Ethyl formate	1	1
Methyl acetate	X	X
Propyl acetate	X	X
Tricresyl phosphate	3	3

SALTS AND ALKALIES	NITRILE outsole	PU upper
Potassium dichromate	3	3
Calcium hypochlorite	3	3
Calcium chloride	3	3
Copper chloride	3	3
Ferric chloride	3	3
Ammonium hydroxide	3	3
Potassium hydroxide	2	2
Sodium hydroxide	2	2
Ammonium sul fate	3	3

ALDEHYDES AND KETONES	NITRILE outsole	PU upper
Acetaldehyde	X	X
Acetone	X	X
Benzaldehyde	X	X
Butyraldehyde	X	X
Chloracetone	1	1
Formaldehyde	3	3
Methyl ethyl Ketone	1	1



EXCELLENT RESISTANCE TO HYDROCARBONS



7 days
soaked in naphtha and
gasoline
physical-mechanical
properties remain
unchanged

MIXTURES	NITRILE outsole	PU upper
Acrylonitrile	1	1
Aniline	X	X
Butter (158°F)	3	3
Milk butter	3	3
Chlorobenzene	X	X
Chlorophenol	2	2
Cresol	2	2
Dibenzylether	2	2
Dichlorobenzene	X	X
Ethylether	1	1
Sodium hypochlorite	3	3
Milk	3	3
Monoethanolamine	2	2
Morpholine	X	X
Hydrogen peroxide	3	3
Soap	3	3
Paint remover	X	X

ALCOHOLS	NITRILE outsole	PU upper
Amyl alcohol	2	1
Benzyl alcohol	2	2
Butyl alcohol	2	2
Ethyl alcohol	3	3
Methyl alcohol	3	3
Octyl alcohol	3	3
Propyl alcohol	3	3
Diacetone alcohol	2	1
Diethanolamine	3	3
Glycerine	3	3
Ethylene glycol	3	3
Triethanolamine	3	3

LEGEND

EXCELLENT	3
GOOD	2
FAIR	1
NOT RECOMMENDED	X