

TABLE OF CHEMICAL RESISTANCES OF COMPOSITE HOSE 416 NF EN NF 13765

CHEMICAL PRODUCT					Hose		Fitting			Seal					
Designation	N° ONU	Class	Concentration %	Temperature °C	Polypropylene	Galvanized steel	Steel stainless	Aluminium	Bronze /Brass	PVC	Viton	Chloroprène	Nitrile	Hypalon	Natural
Acetaldehyde	1089	3	100	20	2	1	1	1		4	4	2	1	1	1
Acetaldehyde	1089	3	40	40	1	1									
Acetaldehyde	1089	3	40	80	2	1									
Acetone	1090	3	100	20	1	1	1	1	1	4	4	4	4	2	1
Acetone	1090	3	100	40	1	1	1	1	1	4	4	4	4	2	1
Acetone	1090	3	100	60	1	1	1	1	1	4	4	4	4	2	2
Acetonitrile	1648	3	100	20	1	1	1	1	1						
Acetic anhydride	1715	8	100	20	1	2	1	1	1	4	4	4	4	4	4
Allylic alcohol	1098	6.1	96	20	1	1	1	1	1	2	2	2	1	1	1
Aniline	1547	6.1	100	20	1	1	1	1	1	4	4	4	4	4	4
Aniline	1547	6.1	100	60	1	1	1	1	2	4	4	4	4	4	4
Ammonia solution	3318	6.1 + 8	100	20	1	1	1	1	4		4	1	4	1	1
Ammonia solution	3318	6.1 + 8	100	60	1	1	1		4						
Ammonium fluoride	2505	6.1	20	60	1				4	2	1	1	1	1	1
Ammonium fluoride	2505	6.1	20	20	1				4	1	1	1	1	1	1
Ammonium fluoride	2505	6.1	20	80	2				4	4	4	4	1	1	4
Amyl acetate	1104	3	100	20	2	2	1	1	1	4	4	4	4	4	2
Barium cyanide	1565	6.1	100	20	1		1								
Barium nitrate	1446	5.1		20	1			1							
Butadiene	1010	3	50	60	1	1	1	1	1		2	1	2	2	4
Butanol	1120	3	100	40	1	1	1	1	1	2	1	1	1	1	1
Butanol	1120	3	100	20	1	1	1	1	1	1	1	1	1	1	1
Butanol	1120	3	100	60	1	1	1	1	1	2	1	2	1	1	1
Butyl acetate	1123	3	100	20	2		1	1	1	4	4	2	4	2	1
Calcium nitrate	1452	5.1	50	40	1		1	1	1		1	1	1	1	1
Chloroform	1888	6.1	100	20	2	1	1	1	1	4	2	4	4	4	4
Crude oil	1267	3		20	1	2	1	1	1	1	1	1	1		
Crude oil	1267	3		60	1	2	1		1	2	1	1	1	4	4
Cyclohexane	1145	3	100	20	1	1	1	1	1	1	1	4	4	4	4

TABLE OF CHEMICAL RESISTANCES OF COMPOSITE HOSE 416 NF EN NF 13765

CHEMICAL PRODUCT					Hose		Fitting			Seal					
Designation	N° ONU	Class	Concentration %	Temperature °C	Polypropylene	Galvanized steel	Steel stainless	Aluminium	Bronze /Brass	PVC	Viton	Chloroprène	Nitrile	Hypalon	Natural
Cyclohexanone	1915	3	100	20	1	1	1	1	1	4	4	4	4	4	4
Cyclohexanone	1915	3	100	60	2	1		1		4	4	4	4	4	4
Diesel fuel	1202	3	100	20	1	1	1	1	1		1	2	1	2	4
Dichloroethane	2362	3	100	20	1	2	1	1	1		1	4	4	2	4
Dichlorethylene	1150	3	100	20	2	1	1	1	1		1	4	2	4	4
Dichlorobenzene	1591	6.1	100	20	2		1	1	1	4	2	4	2	4	4
Dimethylamine	1032	3	100	20	2	2	1	2	4		4	2	4	4	2
Dimethylamine	1032	3	100	60	2	2	1	4	4		4	2	4	4	2
Ethanol (ethyl alcohol)	1170	3	96	20	1	1	1	1	1	1	1	1	1	1	1
Ethanol (ethyl alcohol)	1170	3	100	40	1	1	1	1	1	1	1	1	1	1	1
Ethanol (ethyl alcohol)	1170	3	96	60	1	2	1	1	1	2	1	1	1	1	1
Ethyl acetate	1173	3	100	20	1	1	1	1	1	4	4	4	4	1	1
Ethyl alcohol in solution (ethanol)	1170	3	96	20	1	1	1	1	1	1	1	1	1	1	1
Ethyl alcohol in solution (ethanol)	1170	3	100	40	1	1	1	1	1	1	1	1	1	1	1
Ethyl alcohol in solution (ethanol)	1170	3	96	60	1	2	1	1	1	2	1	1	1	1	1
Ethyl ether	1155	3	100	20	1	2	1	1	1	4	4	4	4	1	2
Formaldehyde solution	2209	8	100	50	1		1	1		1					
Formaldehyde solution	2209	8	100	60	1			1	1	1	1	1	1	1	
Formaldehyde solution	2209	8	40	30	1		1		1	1	1	1	1	1	1
Formaldehyde solution	2209	8	40	60	1		1		1	1	1	1	1	1	2
Gasole	1202	3	100	20	1	1	1	1	1		1	2	1	2	4
Gasoline for cars	1203	3	100	20	1	1	1	1	1		1		1		4
Heptane	1206	3	100	20	1	1	1	1	1	1	1	1	1	1	4
Hexane	1208	3	100	20	1	1	1	1	1	1	1	1	1	1	4
Hexane	1208	3	100	60	2	1	1	1	1	2	1	1	1	4	4

TABLE OF CHEMICAL RESISTANCES OF COMPOSITE HOSE 416 NF EN NF 13765

CHEMICAL PRODUCT					Hose		Fitting			Seal					
Designation	N° ONU	Class	Concentration %	Temperature °C	Polypropylene	Galvanized steel	Steel stainless	Aluminium	Bronze /Brass	PVC	Viton	Chloroprène	Nitrile	Hypalon	Natural
Hydrogen peroxide	1511	5.1 + 8	30	20	1		1	4	1						
Hydrogen peroxide	1511	5.1 + 8	20	50	1		1	4	4		1	1	4	1	4
Hydrogen peroxide	1511	5.1 + 8	90	20	1		1	1	4		2	4	1	2	4
Hydrogen peroxide	1511	5.1 + 8	90	60	2		1	4	4		2	4	4	2	4
Isopropanol	1219	3	100	20	1	1	1	1	1	1	1	1	1	1	1
Isopropyl ether	1159	3	100	20	2	1	1	1	1	2	2	4	2	1	4
Kerosene	1223	3		20	1	2	1	1	1	1	1	1	1		
Lead nitrate	1469	5.1	100	20	1		1								
Liquid cresols	2076	6.1 + 8	90	45	1	2		1	4	2	1	4	2	2	4
Magnesium nitrate	1474	5.1	100	20	1			1							
Methanol	1230	3	100	20	1	1	1	1	1	1	1	1	1	1	1
Methanol	1230	3	100	40	1	1	1		1	1	1	1	1	1	1
Methanol	1230	3	100	60	1	1	1		1	2	2	2	1	1	4
Methanol	1230	3	100	65	1	1	1		1	4	4	2	1	1	4
Methanol	1230	3	100	40	1	1	1		1	1	1	1	1	1	1
Methanol	1230	3	100	60	1	1	1		1	2	2	2	1	1	4
Methanol	1230	3	100	65	1	1	1		1	4	4	2	1	1	4
Methyl acetate	1231	3	100	20	1	1	1	1	1	1			4		
Methyl - Isobutyl - Ketone	1245	3	100	40	1	1	1	1	1	4	4	4	4	4	4
Methylamine	1235	3 + 8	32	20	1	1	1	1	4		1	1	4	1	1
Methylamine	1235	3 + 8	40	20	1	1		1	4						
Methyl chloride	1063	3	100	100	2	2	1	4			1	4	4		4
Methyl chloride	1063	3	100	20	2	2	1	4	1		1	4	4	1	4
Methyl chloride	1063	3	100	40	2	2	1	4	1		1	4	4		4
Methyl ethyl ketone (ethyl methyl ketone)	1193	3	100	20	1	1	1	1	1	4	4	4	4	4	4
Methyl ethyl ketone (ethyl methyl ketone)	1193	3	100	40	2	1		1	1	4	4	4	4	4	4
Methyl ethyl ketone (ethyl methyl ketone)	1193	3	100	60	2	1		1	1	4	4	4	4	4	4

TABLE OF CHEMICAL RESISTANCES OF COMPOSITE HOSE 416 NF EN NF 13765

CHEMICAL PRODUCT					Hose		Fitting			Seal					
Designation	N° ONU	Class	Concentration %	Temperature °C	Polypropylene	Galvanized steel	Steel stainless	Aluminium	Bronze /Brass	PVC	Viton	Chloroprène	Nitrile	Hypalon	Natural
Monoethyl ether acetate	1172	3	100	20	1	1	1	1							
Morpholine	2054	8	100	20	1	1		1			1	1	4	1	4
Morpholine	2054	8	100	60	1	1				2	1	1	4	1	4
Naphthalene	1334	4.1		20	1	1	1	1	1		1	2	1	4	4
Naphthalene	1334	4.1		60	2	1	1	1			1	4	1	4	4
Naphthalene	1334	4.1		40	2	1	1	1			1	4	1	4	4
Nitrobenzene	1662	6.1	100	20	1	1	1	1	1	4	2	4	4	4	4
Nitrobenzene	1662	6.1	100	60	2	1		1	1	4	4	4	4	4	4
N-propanol (normal propyl alcohol)	1274	3	100	20	1	1	1	1	1	1	1	1	1	1	1
N-propanol (alcool propylique normal)	1274	3	100	20	1	1	1	1	1	1	1	1	1	1	1
N-propanol (normal propyl alcohol)	1274	3	100	20	1	1	1	1	1	1	1	1	1	1	1
Phenol solution	2821	6.1	90	20	1	2	1	1	1	1	1	4	4	4	4
Phenol solution	2821	6.1	90	45	1	2	1	1	1	2	2	4	4	4	4
Phenol solution	2821	6.1	1	20	1	2	1	1	1	1	1	1	1	1	1
Phenol solution	2821	6.1	1	80	2	2	1	1	1	4	2	2	1	4	4
Phosphorus oxychloride	1810	8	100	60	2		4	4	4	2	1	1	4	1	1
Phosphorus pentoxide (phosphoric anhydride)	1807	8	100	20	1		1			1	1	1	1	1	1
Phosphorus pentoxide (phosphoric anhydride)	1807	8	100	60	1		1			2	1	1	4	1	1
Potassium nitrate	1485	5.1	10	20	1	1	1	4	1		1	1	1	1	1
Potassium nitrate	1485	5.1	50	60	1	1	1		1		1	1	1	1	1
Potassium nitrate	1485	5.1	10	40	1	1	1		1		1	1	1	1	1
Potassium nitrate	1485	5.1	10	60	1	1	1		1		1	1	1	1	1

TABLE OF CHEMICAL RESISTANCES OF COMPOSITE HOSE 416 NF EN NF 13765

CHEMICAL PRODUCT					Hose		Fitting			Seal					
Designation	N° ONU	Class	Concentration %	Temperature °C	Polypropylene	Galvanized steel	Steel stainless	Aluminium	Bronze /Brass	PVC	Viton	Chloroprène	Nitrile	Hypalon	Natural
Potassium permanganate	1490	5.1	6	60	1	2	1	1	1		1	1	4	1	1
Potassium permanganate	1490	5.1	6	20	1	2	1	1	1		1	1	4	1	1
Potassium permanganate	1490	5.1	6	40	1	2	1	1	1		1	1	4	1	1
Potassium permanganate	1490	5.1	18	40	2	2	1	1	1		1	1	4	1	1
Potassium persulfate	1492	5.1	10	40	1		1		4		1	1	4	1	1
Potassium persulfate	1492	5.1	10	60	1				4		1	1	4	1	1
Potassium persulfate	1492	5.1	50	40	1		1		4		1	1	4	1	1
Potassium persulfate	1492	5.1	50	60	1				4		1	1	4	1	1
Pyridine	1282	3	T%	20	2	2	1		4	4	4	4	1	2	4
Pyridine	1282	3	T%	60	2	2			4	4	4	4	4	4	4
Sodium arsenite in aqueous solution	1686	6.1	100	20	1			1		1					
Sodium chlorite	1496	5.1	100	20	1	1	1	1			1	4			
Sodium chlorite	1496	5.1	50	60	2	1	1		2		1	4			
Sodium chlorite	1496	5.1	10	20	2	1	1		2		1	2	4	1	4
Sodium chlorite	1496	5.1	10	60	2	1	1				1	2	4	1	4
Sodium hydroxide solution	1824	8	50	50	1	1	1				4				
Sodium hydroxide solution	1824	8	100	50	1	1	1				4				
Sodium hydroxide solution	1824	8	30	60	1	1	1	4	4	1	4	1	1	1	1
Sodium perchlorate	1502	5.1		20	1	2		1							
Stabilized vinyl acetate	1301	3	100	20	1	2	1	1	1	4	1	1	1	1	1

TABLE OF CHEMICAL RESISTANCES OF COMPOSITE HOSE 416 NF EN NF 13765

CHEMICAL PRODUCT					Hose		Fitting			Seal					
Designation	N° ONU	Class	Concentration %	Temperature °C	Polypropylene	Galvanized steel	Steel stainless	Aluminium	Bronze /Brass	PVC	Viton	Chloroprène	Nitrile	Hypalon	Natural
Sulfur	1350	4.1	100	60	1	2	1			2	1	1	1	1	1
Sulfur	1350	4.1	100	20	1	2	1			2	1	1	1	1	1
Sulfur	1350	4.1	100	40	1	2	1			2	1	1	1	1	1
Synthetic camphor	2717	4.1	100	20	1	1	1	1	1	4	2	4	1	1	2
Synthetic camphor	2717	4.1	100	60	2	1	1	1	1	4	4	4	2	2	4
Tetrachlorethylene	1897	6.1	100	20	2	1	1	1	1	4	1	4	2	4	4
Tetrachlorethylene	1897	6.1	100	40	2	1				4	1	4	2	4	4
Tetrahydrofuran	2056	3	100	20	2					4	4	2	1	4	4
Toluène	1294	3	100	20	1	1	1	1	1	4	2	4	2	4	4
Toluene	1511	5.1 + 8	10	40	1	1	1	1	4		1	1	1	1	1
Turpentine essence substitute	1300	3	100	20	2	1	1	1	1		1		1		
Urea	1511	5.1 + 8	33	40	1	1	1	1	4		1	1	1	1	1
Urea	1511	5.1 + 8	10	60	1	1	1	1	4		1	1	1	1	1
Urea	1511	5.1 + 8	33	60	1	1	1	1	4		1	1	1	1	1