

CAS #	Chemical Name	Zyron 100	Zyron 100XP	Zyron 200	Zyron 300	Zyron 400	Zyron 500	Frontline 300	Frontline 500
		Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)
3607-78-1	1,1,1,3,3,3-Hexachloropropane								
71-55-6	1,1,1-Trichloroethane 99.5 %								
95-50-1	1,2-Dichlorobenzene 99.0%								
107-06-2	1,2-Dichloroethane 99.8%								
78-87-5	1,2 Dichloropropane 98.0%								
122-21-1	1,2-Dihydroxyethane >99%								
106-99-0	1,3 Butadiene 99%								
542-75-6	1,3 Dichloropropene 98%								
822-06-0	1,6-Diisocyanatohexane 98%								
108-38-3	1,3-Dimethylbenzene 99+%								
71-36-3	1-Butanol 99.9%								
88-12-0	1-Vinyl-2-Pyrrolidinone 99.9%								
106-50-3	1,4-Diaminobenzene 15%								
Mixture	21% Sulfur Trioxide 79% Chlorosulfonic Acid								
534-85-0	2-Aminodiphenylamine {2-ADP} 15%								
141-43-5	2-Aminoethanol 99+%								
7697-37-2	Aqua Fortis 70%								
78-93-3	2-Butanone MEK 99+%								
79-06-01	2-Propenamide 99+%								
106-89-8	2-Chloropropylene Oxide 99+%								
60-24-2	2-Mercaptoethanol 99%								
542-75-6	3-Chloroallyl Chloride 98%								
107-05-1	3-Chloropropene 98%-99%								
92-67-1	4-Aminodiphenyl 25%								
98-29-3	4-Tert-Butylcatechol 97%								
100-43-6	4-Vinylpyridine 95%								
64-19-7	Acetic Acid 99.8%								
108-24-7	Acetic Anhydride >99%								
67-64-1	Acetone 99.5%								
75-05-8	Acetonitrile 99.5%								
107-02-8	Acrolein 90%								
79-06-01	Acrylamide 99+%								
107-13-1	Acrylonitrile 99+%								
Mixture	Alkylate 99.5%								
79-10-7	Acrylic Acid >99%								

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CAS #	Chemical Name	Zyron 100	Zyron 100XP	Zyron 200	Zyron 300	Zyron 400	Zyron 500	Frontline 300	Frontline 500
		Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)
107-18-6	Allyl Alcohol 99%								
107-05-1	Allyl Chloride 99%								
7784-24-9	Aluminum Potassium Sulfate 12 Hydrate 50%								
98-83-9	A-Methyl Styrene 99%								
7664-41-7	Ammonia Gas 100%								
7664-41-7	Ammonia Liquid 100%								
1336-21-6	Ammonium Hydroxide 28%								
62-53-3	Aniline 99.5%								
Mixture	Arctic Heating Fuel (mixture)								
110-86-1	Azobenzene 99.8%								
333-41-5	Basudin 25%								
7664-93-9	Battery Acid 95%								
120-80-9	Benzocatechin 95%								
71-43-2	Benzene 99.4%								
100-44-7	Benzyl Chloride 99%								
106-99-0	Biethylene 99%								
505-60-2	Bis (2-chloroethyl) Sulfide (Mustard Gas)								
Mixture	Black Liquor								
7637-07-2	Boron Trifluoride 99.9%								
13319-75-0	Boron Trifluoride Dihydrate 96%								
7726-95-6	Bromine 98% - 99%								
74-83-9	Bromomethane 99.5%								
123-86-4	Butyl Acetate 99%								
71-36-3	Butyl Alcohol 99.9%								
1634-04-4	Butyl Methyl Ether (MTBE) 99.8%								
108-95-2	Carbolic Acid 99.9%								
75-15-0	Carbon Disulfide 99%								
75-15-0	Carbon Disulfide 99%								
75-44-5	Carbon Oxide 99%								
120-80-9	Catechol 95%								
1310-73-2	Caustic Soda 50%								
10049-04-4	Chlorine Dioxide 3000ppm								
7782-50-5	Chlorine Gas 99%								
7782-50-5	Chlorine Liquid 99%								
79-11-8	Chloroacetic Acid 99%								
108-90-7	Chlorobenzene 99.5%								
67-66-3	Chloroform 99%								

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CAS #	Chemical Name	Zyron 100	Zyron 100XP	Zyron 200	Zyron 300	Zyron 400	Zyron 500	Frontline 300	Frontline 500
		Perm Rate (µg/cm2/min)	Breakthrough Time (min)	Perm Rate (µg/cm2/min)	Breakthrough Time (min)	Perm Rate (µg/cm2/min)	Breakthrough Time (min)	Perm Rate (µg/cm2/min)	Breakthrough Time (min)
74-87-3	Chloromethane 99%				>480	>480*	>480	>480	>480 *
7790-94-5	Chlorosulfonic Acid 99%				>480	>480	>480	>480	>480 ND
541-25-3	Chlorovinylarsine Dichloride (Lewisite nerve gas)				>240		>480	>480	>240*
1333-82-0	Chromic Acid 50%				>480	>480	>480	>480	>480 ND
123-73-9	Crotonaldehyde 99%						>480		
Mixture	Crude Oil (mixture)						>480		
Mixture	Crude Oil Alaska North Slope (mixture)						>480*		
98-82-8	Cumene 99%				>480	>480*	>480	>480	>480 ND
80-15-9	Cumene Hydroperoxide 80%				>480	>480*	>480	>480	>480 ND
107-13-1	Cyanoethylene 99%			65	95	0.2	>480	>480	>480
75-05-8	Cyanomethane 99%			52	>480	>480	>480	>480	>480 *
110-82-7	Cyclohexane 99+%						>480	>480	>480
108-94-1	Cyclohexanone 99.8%						>480	>480	>480 ND
3173-53-3	Cyclohexyl Isocyanate 98%						>480*		
Mixture	Denatured Ethanol Mixture 90% Ethanol 10% Methanol						>480	>480	
333-41-5	Diazanone 25%						>480	>480	
142-96-1	Dibutyl Ether >99%						>480	>480	>480*
84-74-2	Dibutyl phthalate 99%						>480		
75-78-5	Dichlorodimethylsilane 99%						>480		
75-09-2	Dichloromethane 99%						>480		
Mixture	Diesel Fuel - ultra low sulfur (mixture)						>480		
60-29-7	Diethyl Ether 99%						>480		
109-89-7	Diethylamine 99.5%						>480		
109-99-9	Diethylene Oxide 99.9%						>480		
110-91-8	Diethylene Oxime 99%						>480		
100-37-8	Diethylethanamine 98%						>480		
57-14-7	Dimazine 99%						>480		
127-19-5	Dimethylacetamide 99.8%						>480		
124-40-3	Dimethylamine 40%						>480		
75-78-5	Dimethyldichlorosilane 99%						>480		
75-21-8	Dimethylene Oxide 99%						>480		
68-12-2	Dimethylformamide 99.8%						>480		
57-14-7	Dimethylhydrazine N,N- 99%						>480		
67-64-1	Dimethyl Ketone 99.9%						>480		
77-78-1	Dimethyl Sulfate 99+%						>480		
75-18-3	Dimethyl Sulfide 99+%						>480		
10544-72-6	Dinitrogen Tetraoxide 2000ppm						>480*		>480 *

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		Permeation Rate (g/cm ² /min)	Breakthrough Time (min)	Permeation Rate (g/cm ² /min)	Breakthrough Time (min)	Permeation Rate (g/cm ² /min)	Breakthrough Time (min)	Permeation Rate (g/cm ² /min)	Breakthrough Time (min)
142-82-5	Dipropyl Methane 99%								
127-19-5	DMAC 99.8%				>480	>480*	>480	>480	>480 *
39475-55-3	Dursban 7%			ND		>480*	>480	ND	
106-89-8	Epichlorohydrin 99+%				>480	>480*	>480	ND	
121-44-8	Ethanolamine 99.5%				>480	>480*	>480	ND	ND
64-19-7	Ethanoic Acid 99.7%			>480	89	>480	>480	ND	>480 *
108-24-7	Ethanoic Anhydride 98.7%			>480	ND	>480*	>480	ND	
64-17-5	Ethanol 95%			>480	ND	>480*	>480	ND	
141-43-5	Ethanolamine 99+%				>480	>480*	>480	ND	ND
100-42-5	Ethyl Benzene 99%				>480	>480*	>480	ND	ND
141-78-6	Ethyl Acetate 99.8%			14	>480	>480	>480	ND	ND
140-88-5	Ethyl Acrylate 99%						>480	<0.05	
64-17-5	Ethyl Alcohol 95%			>480	ND	>480*	>480	ND	
100-41-4	Ethyl Benzene 99.8%				>480	>480*	>480*		>480 *
541-41-3	Ethyl Chloroformate 97%				>480	>480*	>480	ND	ND
141-78-6	Ethyl Ethanoate 99.8%			14	>480	>480	>480	ND	>480 *
50782-69-9	Ethyl-S-Dimethylaminoethyl Methylphosphonothiolate (VX nerve agent)				>480	>480*	>480	ND	
107-06-2	Ethylene Dichloride 99.8%				>480	>480*	>480	ND	ND
107-21-1	Ethylene Glycol 99.8%	>480	ND	>480	ND	>480	>480	ND	ND
75-21-8	Ethylene Oxide 99.8%				>480	305	>480	ND	ND
7705-8-0	Ferrie Chloride 50%			>480	ND	>480*	>480	ND	ND
74-90-8	Formonitrile 99%				>480	>480	>480*		>480 *
50-00-0	Formaldehyde 10%	>480	ND		>480	>480*	>480	ND	ND
Mixture	Fuel Oil LS (mixture)			>480	ND		>480	ND	
8006-61-9	Gasoline (mixture)				>480	>480	>480	ND	ND
111-30-8	Glutaraldehyde 5%	>480	ND	>480	ND	>480	>480	ND	ND
111-30-8	Glutaric Dialdehyde 5%	>480	ND	>480	ND	>480	>480	ND	ND
Mixture	Green Liquor (mixture)	>480	ND	>480	ND	>480*	>480	ND	
142-85-5	Heptane 99%						>480	ND	
110-82-7	Hexahydrobenzene 98%				>480	>480*	>480	ND	>480 *
124-09-4	Hexamethylenediamine 98+%				180	180*			
822-06-0	Hexamethylene Diisocyanate 98%			>480	ND	>480	>480	ND	
110-54-3	Hexane 99%			7	0.35	>480	>480	ND	ND
10217-52-4	Hydrazine Hydrate 100%					>480	>480	ND	
10034-85-2	Hydrochloric Acid 47%			>480	ND	>480*	>480	ND	
7647-01-0	Hydrochloric Acid 37%				>480	>480*	>480	ND	ND

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		Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)	Perm Rate (µg/cm ² /min)	Breakthrough Time (min)
7647-01-0	Hydrogen Chloride 99%							>480	ND	>480*	>480	>480	ND	>480	>480	ND	>480
74-90-8	Hydrogen Cyanide 99%									>480	>480	>480*	>480				
7664-39-3	Hydrogen Fluoride Liquid 99.5%											>480	ND	>480	>480	ND	
7664-39-3	Hydrogen Fluoride Gas 99%									>480	>480	>480*	>480	>480	>480	ND	
7664-39-3	Hydrofluoric Acid 48%	>480	ND	>480	ND	>480	ND	>480	ND	>480	>480	>480	ND	>480	>480	ND	
7722-84-1	Hydrogen Peroxide 50%	>480	ND			>480	ND			>480*	>480	>480*	ND	>480	>480	ND	
7803-51-2	Hydrogen Phosphide 3000ppm							>480	ND	>480*	>480	>480*		>480	>480	ND	
7783-06-4	Hydrogen Sulfide 99% vapor															>480	0.05
74-88-4	Iodomethane 99%							<480	ND	>480*	>480	>480	ND				
2855-13-2	Isophorone Diamine { IPDA } 99%							>480	ND	>480*	>480	>480*		>480	>480	ND	
75-31-0	Isopropylamine 99+%							>480	ND	>480*	>480	>480	ND	>480	>480	ND	
98-83-9	Isopropenyl Benzene 99%							>480	ND	>480*	>480	>480	ND	>480	>480	ND	
67-63-0	Isopropyl Alcohol 99.8%							>480	ND	>480*	>480	>480	ND	>480	>480	ND	
98-82-8	Isopropyl Benzene 99%							>480	ND	>480*	>480	>480	ND	>480	>480	ND	
107-44-8	Isopropyl Methanefluorophosphonate (Sarin)							>480	ND	>480*	>480	>480	ND	>480	>480	ND	
Mixture	Jet Fuel A (mixture)					>480	ND			>480*	>480	>480	ND				
8008-20-6	JP 5 Jet Fuel (mixture)							>480	ND	>480*	>480	>480*		>480	>480	ND	
84742-47-8	JP 8 Jet Fuel (mixture)							>480	ND	>480*	>480	>480*		>480	>480	ND	
Mixture	Kerosene Distillate (mixture)					16	0.138	338	0.104			>480	ND	>480	>480	ND	
71-43-2	Mixture											>480	ND	>480	>480	ND	
74-98-6	Light Oil (75% Benzene 25% Diesel Oil) 99%											>480	ND	>480	>480	ND	
541-25-3	Liquid Petroleum Gas 99.5%											>480	ND	>480	>480	ND	
121-75-5	Lewisite (L) Nerve Agent							>240		>480*	>480	>480	ND	>480	>480	ND	
110-16-7	Malathion 50%					>480	ND			>480*	>480	>480	ND	>480	>480	ND	
108-31-6	Maleic Acid at Saturation											>480	ND	>480	>480	ND	
67-56-1	Maleic Anhydride 100ppm											>480	ND	>480	>480	ND	
79-20-9	Methanol 99+%					>480	ND					>480	ND	>480	>480	ND	
67-56-1	Methyl Acetate 99.8%					>480	ND	55	0.329	>480	>480	>480	ND	>480	>480	ND	
74-89-5	Methyl Alcohol 99%					>480	ND	55	0.329	>480	>480	>480	ND	>480	>480	ND	
108-88-3	Methylamine (40% in water)							>480	0.008	>480*	>480	>480*		>480	>480	ND	
74-83-9	Methyl Benzene 99+%					6	355	>480	ND	>480	>480	>480	ND	>480	>480	ND	
74-87-3	Methyl Bromide 99.5%					59	60.9										
71-55-6	Methyl Chloride 99.91%							>480	ND	>480*	>480	>480	<0.01	>480	>480	ND	
79-22-1	Methyl Chloroform 99.5%							>480	ND	>480	>480	>480	ND	>480	>480	ND	
78-93-3	Methyl Chloroformate 99%							>480	ND	>480*	>480	>480*		>480	>480	ND	
74-88-4	Methyl Ethyl Ketone 99+%							>480	ND	>480	>480	>480	ND	>480	>480	ND	
108-10-1	Methyl Iodide 99%							>480	ND	>480*	>480	>480*		>480	>480	ND	
	Methyl Isobutyl Ketone (MIBK) 99.5%							>480	ND	>480*	>480	>480*		>480	>480	ND	

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80-62-6	Methyl Methacrylate >99%								
872-50-4	Methyl Pyridone 99+%								
77-78-1	Methyl Sulfate 99+%								
1634-04-4	Methyl tert Butyl Ether 99.8%								
75-09-2	Methylene Dichloride 99.9%			2	85.1	88	85.1		
50-00-0	Methylene Oxide 1000ppm	>480	ND						
79-11-8	Monochloroacetic Acid 50%								
75-01-04	Monochloroethylene 99%			>480	ND	>480*	>480*		
7790-94-5	Monochlorosulfuric Acid 99%			>480	ND	>480	>480		
108-90-7	Monochlorobenzene >99%				305	0.21			
60-34-4	Monomethyl Hydrazine								
110-91-8	Morpholine 99+%			145	1.27				
8006-61-9	Motor Fuel (mixture)								
7647-01-0	Muriatic Acid 37%								
505-60-2	Mustard (HD) (nerve agent)								
108-38-3	M-Xylene 99+%								
Mixture	Naphtha (mixture)								
50782-69-9	Nerve Agent (VX)								
123-86-4	N-Butyl-Acetate 99%								
109-89-7	N-Ethylethylamine 99.5%								
110-54-3	N-Hexane 95%			21	235				
872-50-4	N-methyl-2-pyrrolidone 95-99%			7	0.35				
68-12-2	N,N-Dimethylformamide 99.8%			>480	<0.01	>480*	>480*		
109-66-0	N-Pentane 99+%			77	1.81				
7697-37-2	Nitric Acid 70%	>480	ND	>480	ND	>480	>480		
98-95-3	Nitrobenzene 99+%			97	19.8	>480	>480		
98-95-3	Nitrobenzol 99+%			97	19.8	>480	>480		
10102-44-0	Nitrogen Dioxide 99%								
10102-44-0	Nitrogen Peroxide 99%								
10544-72-6	Nitrogen Tetroxide 2000ppm								
10544-72-6	Nitrogen Tetroxide/Nitric Oxide Mix 2000ppm								
95-48-7	O-Cresol 99+%								
111-65-9	Octane 99%								
121-75-5	O-dimethyl-phosphorodithioate 50%			>480	ND				
95-47-6	O-Xylene 97%								
8014-95-7	Oleum >65%								
7664-38-2	Orthophosphoric Acid 85%								

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106-50-3	p-Phenylenediamine { PPDA } 15%								
106-42-3	P-Xylene 99%								
109-66-0	Pentane 99+%								
127-18-4	Perchloroethylene 99.9%								
108-95-2	Phenol @43 C 99.9%			21	8.41				
108-95-2	Phenol @65 C >99%			287	0.32				
108-90-7	Phenyl Chloride 99.5%			38	12.9				
62-53-3	Phenylamine 99.5%								
122-60-1	Phenylglycidyl Ether 99%								
71-43-2	Phenyl Hydride 99%			36	11				
98-13-5	Phenyltrichlorosilane Neat 97%								
7664-38-2	Phosphoric Acid 85%								
7719-12-2	Phosphorus Chloride 98%								
10025-87-3	Phosphorus Oxide 99%								
7719-12-2	Phosphorus Trichloride 98%								
108-99-6	Picoline 99%								
151-50-8	Potassium Cyanide 10%								
1310-58-3	Potassium Hydroxide 50%								
74-98-6	Propane 99.5%								
108-32-7	Propylene Carbonate								
75-56-9	Propylene Oxide 99%								
78-87-5	Propylene Dichloride 98%								
110-86-1	Pyridine 99+%								
Mixture	Reformate Naphtha mixture 97-99%								
107-44-8	Sarin (GB) nerve agent								
10026-04-7	Silicon Tetrachloride 99.8%								
7775-09-9	Sodium Chlorate 50%								
7681-52-9	Sodium Chloride Oxide 13%								
10034-82-9	Sodium Chromate Tetrahydrate 50%								
143-33-9	Sodium Cyanide saturated in H ₂ O								
1310-73-2	Sodium Hydroxide 50%								
7681-52-9	Sodium Hypochlorite 13%								
124-41-4	Sodium Methylate in Methanol 25%								
143-33-9	Sodium salt of Hydrocyanic Acid saturated in H ₂ O								
Mixture	Stoddard Solvent 99+%								
100-42-5	Styrene Monomer 99%								
10545-99-0	Sulfur Dichloride 80%								

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		Breakthrough Time (min)	Perm Rate (µg/cm2/min)	Breakthrough Time (min)	Perm Rate (µg/cm2/min)	Breakthrough Time (min)	Perm Rate (µg/cm2/min)	Breakthrough Time (min)	Perm Rate (µg/cm2/min)
7446-09-5	Sulfur Dioxide 99%								
7446-11-9	Sulfur Trioxide 99%								
7664-93-9	Sulfuric Acid 95%	>480	ND	>480	ND	>480*	ND	>480	ND
75-91-2	Tertiary Butyl Hydroperoxide 5-6M					>480	ND	>480	ND
2052-49-5	Tetrabory Lam 99%					>480	ND	>480	ND
127-18-4	Tetrachloroethylene 99+%			21	8.41	>480	ND	>480	ND
7550-45-0	Tetrachlorotitanium 99.9%					>480	ND	>480*	ND
109-99-9	Tetrahydrofuran 99.9%			3	463	>480	ND	>480	ND
75-59-2	Tetramethylenediamine Hydroxide 25%					>480	ND	>480	ND
7719-09-7	Thionyl Chloride 99%					>480	ND	>480	ND
7550-45-0	Titanium Tetrachloride 99.9%					>480	ND	>480*	ND
108-88-3	Toluene 99.5%			6	355	>480	ND	>480	ND
584-84-9	Toluene diisocyanate 98%					>480	0.05	>480*	ND
79-01-6	Trichloroethylene 99%					>480	ND	>480*	ND
10025-78-2	Trichlorosilane Neat			30	58.9				
75-94-5	Trichlorovinylsilane Neat			75	3.6				
121-44-8	Triethylamine 99.5%					>480	ND	>480*	ND
76-05-1	Trifluoroacetic Acid (TFA) 99%			>480	ND	>480	ND	>480	ND
13319-75-0	Trifluoroborane Dihydrate 96%					>480	ND	>480*	ND
76-05-1	Trifluoroethanoic Acid 99%			>480	ND	>480*	ND	>480*	ND
1330-78-5	Tritolyl Phosphate 90%					>480	ND	>480*	ND
108-05-4	Vinyl Acetate 99.8%					>480	ND	>480*	ND
75-01-04	Vinyl Chloride 99%			>480	ND	>480	ND	>480*	ND
Mixture	White Liquor mixture	>480	ND	>480	ND	>480*	ND	>480	ND

*Permeation data based on Zyron 200, Zyron 300, Zyron 400 and / or Frontline 300

WARNING: There are uses, environments and chemicals for which these garments and /or fabrics are unsuitable. It is the responsibility of the user to review available data and verify that the garments and/or fabric is appropriate for the intended use and meets all specified government and industry standards.

CAUTION: Do not use for fire protection. Avoid open flame or intense heat.