



THE RIGHT GLOVE FOR THE JOBSM

CHEMICAL CHART RESISTANCE

PERMEATION & DEGRADATION TEST DATA

Provided data and recommendations are intended as guides only. Work practices and conditions vary and are beyond our control. It is impossible to test every work situation and all combinations of chemicals. The suitability of a glove for a specific job must be determined through testing by the purchaser or user.

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G07B



G25G

Safe Selection

EMPLOYERS' RESPONSIBILITIES

Choosing the right glove for the job is vital to ensure user safety and product protection. Under OSHA 29 CFR parts 1910.132 and 138 as well as various Canadian provincial regulations, employers are responsible for selecting appropriate personal protective equipment (PPE), including gloves, for their employees. Employers are required to conduct a risk assessment to justify their selection of PPE. Therefore, our gloves are extensively tested against a wide range of commonly used chemicals.

THE IMPORTANCE OF BOTH PERMEATION AND DEGRADATION

Chemicals in contact with gloves may not cause any visible degradation but expose the user's hands to contamination by their permeation through the glove material. Similarly, some gloves may show relatively good chemical permeation resistance but be physically degraded by contact with a specific chemical. Marigold® Industrial provides helpful information on permeation-and-degradation resistance in our "Useful Time" recommendations represented by color coding the data in our chemical-resistance table. This unique chemical-resistance information provides useful guidance in selecting gloves against specific chemicals.



⚠ CAUTION:

Test and inspect your gloves before and periodically during use. Data provided in this catalog are based on laboratory tests representing the informed judgement of Marigold Industrial based on data available at the time of publication.

- The permeation test results of some glove styles are based on limited testing and use results from other Marigold gloves of similar thickness and composition. These glove styles are marked with an asterisk (*).
- Some permeation test results were obtained by using data from EN 374, Part 3, but adjusted to meet the requirements for sensitivity and determination of breakthrough-detection time (BDT) in ASTM F 739-99.

Provided data and recommendations are intended as guides only. Work practices and conditions vary and are beyond our control. It is impossible to test every work situation and all combinations of chemicals. The suitability of a glove for a specific job must be determined through testing by the purchaser or user. (Note: Physical damage such as cuts, tear or punctures will significantly reduce the performance of gloves).

Data in this catalog apply only to the Marigold Industrial gloves detailed. Gloves offered by other manufacturers as "equivalents" to Marigold Industrial gloves may have entirely different chemical-resistance characteristics.

If the chemical or combination of chemicals is not one of the commonly used substances listed in the chart, call PIP®— Protective Industrial Products—exclusive supplier of Marigold® Industrial gloves in the U.S. and Mexico at 800-262-5755. In Canada, call Marigold® Industrial at 800-276-8700.



43Y



ME104



CR30

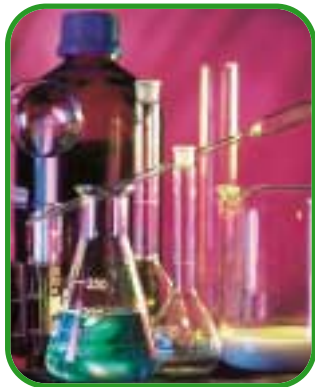
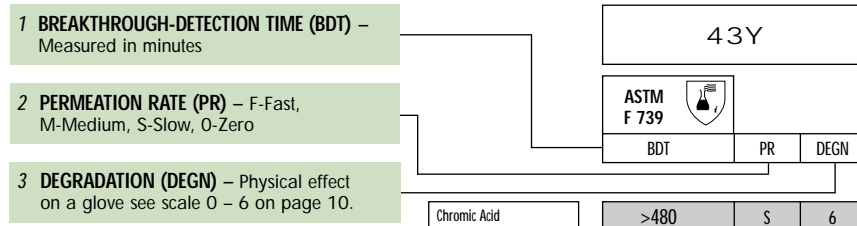
NRL = Natural Rubber Latex

Chemical	CAS #s	Risk Codes	17 mils NRL US:414/CAN:454			18 mils NRL G12T*			21 mils NRL 326Y*			30 mils NRL US:173/CAN:459 US:2J/CAN:450			44 mils NRL ME104			
			ASTM F 739	PR	DEGN SCORE	ASTM F 739	PR	DEGN SCORE	ASTM F 739	PR	DEGN SCORE	ASTM F 739	PR	DEGN SCORE	ASTM F 739	PR	DEGN SCORE	
			BDT (mins)			BDT (mins)			BDT (mins)			BDT (mins)			BDT (mins)			
Acetaldehyde	75-07-0	Xi	3	F	6	Not Recommended	Not Recommended	3	F	6	3	F	6	5	F	6		
Acetic Acid (glacial)	64-19-7	Cx, Caution	12	M	5	Not Recommended	13	M	5	14	M	5	38	M	5	193	M	4
Acetone	67-64-1	V	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	7	M	6	50	M	3
Acetonitrile	75-05-8	T	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	6	M	6	57	S	6
Acrylic Acid	79-10-7	C, T, Skin	8	F	1	Not Recommended	Not Recommended	10	F	1	16	F	2	68	M	2		
Ammonium Hydroxide 29%	1336-21-6	C, Caution	7	M	6	Not Recommended	8	M	6	8	M	6	11	S	6	300	S	6
Amyl Acetate	628-63-7	V	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	8	M	1	30	F	1
Amyl Alcohol (Pentyl Alcohol)	71-41-0	X	16	M	6	Not Recommended	18	M	6	18	M	6	27	S	6	58	S	6
Benzene	71-43-2	T, Skin, Cancer	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	2	F	0	11	F	0
Bisphenol A (20% in MEK)	80-05-7	X, Sensitizer	11	F	3	Not Recommended	Not Recommended	14	F	3	20	F	3	74	M	3		
Butanol (Butyl Alcohol)	71-36-3	X, Skin	14	S	6	Not Recommended	16	S	6	16	S	6	20	S	6	43	S	6
Butyl Acetate	123-86-4	V	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	18	F	1	35	M	2
Butyl Cellosolve Acetate	112-07-2	X	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended
Carbon Disulfide	75-15-0	T, Skin	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	3	F	6	4	F	5
Cellosolve	110-80-5	X	7	M	6	7	M	6	10	M	6	18	S	6	93	S	6	
Cellosolve Acetate	111-15-9	X	6	F	6	Not Recommended	Not Recommended	8	F	6	15	F	6	49	M	4		
Chloroform	67-66-3	X, Cancer, Caut.	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended
Chromic Acid	1333-82-0	Cx, Sen, Caut.	225	S	6	250	S	6	260	S	6	>480	O	6	>480	O	6	
Cyclohexanol	108-93-0	X, Skin	84	S	6	106	S	6	64	S	6	163	S	6	380	S	6	
Cyclohexane	110-87-7	V	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended
Cyclohexanone	108-94-1	X, Skin	6	F	1	Not Recommended	Not Recommended	11	F	1	16	F	1	65	M	1		
Cyclohexylamine	108-91-8	C, X, Caution	5	F	1	5	F	1	6	F	1	19	F	1	62	F	1	
Diacetone Alcohol	123-42-2	X	21	S	6	23	S	6	40	S	6	63	S	6	235	S	6	
Dichloromethane (MEC)	75-09-2	X	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	3	F	1	8	F	1
Diesel Fuel	68474-34-6	X	7	F	0	Not Recommended	Not Recommended	16	F	0	19	M	1	120	S	1		
Diethyl Ether	60-29-7	X	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	3	F	0	7	F	0
Dimethyl Acetamide (DMAC)	127-19-5	X, Skin	24	M	6	26	M	6	27	M	6	32	M	6	>480	O	6	
Dimethylformamide (DMF)	68-12-2	X, Skin	8	M	6	10	M	6	16	M	6	28	M	6	70	M	6	
Diocyl Phthalate (DOP)	117-81-7	X	>480	O	5	>480	O	5	>480	O	5	>480	O	6	>480	O	6	
Dioxane (1,4)	123-91-1	X, Skin	3	F	1	3	F	1	4	F	1	12	F	1	61	F	2	
Epichlorohydrin	106-89-8	T, Cancer, Skin	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	10	F	6	55	M	6
Epoxy Resin (Araldite Lqd. Resin)	68609-97-2	-	>480	O	1	>480	O	1	>480	O	1	>480	O	2	>480	O	2	
Ethanol (Ethyl Alcohol)	67-17-5	V	4	S	6	4	S	6	4	S	6	15	S	6	108	S	6	
Ethanolamine	141-43-5	Xi, Caution	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Ethyl Acetate	141-78-6	V	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	7	F	6	22	F	2
Ethyl Acrylate	140-88-5	X, Sen, Skin	7	F	3	Not Recommended	Not Recommended	9	F	3	12	F	3	39	F	4		
Ethyl Lactate	97-64-3	-	8	M	6	12	M	6	10	M	6	32	S	6	113	S	6	
Ethylene Glycol	107-21-1	Xi, Skin	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Formaldehyde (40% Aq. Soln.)	50-00-0	T, Sen, Skin, Caut	30	S	6	35	S	6	35	S	6	96	S	6	206	S	6	
Formic Acid (90% Aq. Soln.)	64-18-6	Cx, Caution	24	S	1	45	S	1	47	S	1	53	S	2	114	S	3	
Furfural	98-01-1	T, Skin	8	M	6	6	M	6	10	M	6	15	M	6	78	S	6	
Glycerol	56-81-5	None	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Heptane (-n)	142-82-5	V	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	7	F	1	20	F	1
Hexamethylene Diisocyanate	5124-30-1	T	18	F	6	Not Recommended	Not Recommended	23	F	6	41	F	6	98	F	6		
Hexane (-n)	110-54-3	X	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	6	F	1	16	M	1
Hydrochloric Acid (36% Aq. Sol.)	7647-01-0	C, Caution	72	S	6	80	S	6	84	S	6	340	S	6	>480	O	6	
Hydrofluoric Acid (48% Aq. Sol.)	7664-39-3	C, Caution	57	S	3	89	S	3	60	S	3	135	S	6	290	S	6	
Hydrogen Peroxide (30% Aq. Sol.)	7722-84-1	C, Caution	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Hydroquinone (Sald. Aq. Sol.)	123-31-9	X, Sensitizer	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Isopropanol (Isopropyl Alcohol)	67-63-0	V	21	S	6	23	S	6	23	S	6	28	S	6	60	S	6	
Jeffamine (An Epoxy Catalyst)	101-77-9	-	>480	O	5	>480	O	5	>480	O	5	>480	O	6	>480	O	6	
Kerosene	8008-20-6	X	29	S	1	Not Recommended	Not Recommended	17	S	1	73	S	1	130	S	2		
d-Limonene																		
Methanol (Methyl Alcohol)	67-56-1	T, Skin	3	S	6	3	S	6	3	S	6	9	S	6	19	S	6	
1-Methoxy-2-propanol	107-98-2	None	59	S	6	63	S	6	65	S	6	165	S	6	338	S	6	
Methyl Ethyl Ketone (MEK)	78-93-3	V	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	6	F	3	26	F	3
Methyl Isobutyl Ketone (MIBK)	108-10-1	V	4	F	6	5	F	6	5	F	6	13	M	6	53	M	6	
Methyl Methacrylate	80-62-6	X, Sensitizer	2	F	1	4	F	1	3	F	1	12	F	2	24	M	2	
N-Methylpyrrolidone (NMP)	872-50-4	Xi	24	F	1	16	F	1	18	F	1	43	M	6	143	S	4	
Naphtha	8032-32-4	X	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	3	F	0	26	F	0
Nitric Acid (50% Aq. Sol.)	7697-37-2	Cx, Caution	>480	O	4	>480	O	4	>480	O	4	>480	O	4	>480	O	6	
Nitric Acid (70% Aq. Sol.)	7697-37-2	Cx, Caution	95	M	1	Not Recommended	Not Recommended	105	M	1	285	M	3	>480	O	3		
Octane (Isocane)	111-65-9	V	7	F	1	Not Recommended	Not Recommended	9	F	1	16	F	2	57	M	1		
Orthophosphoric Acid	7664-38-2	-	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Perchloroethylene	127-18-4	X, Cancer	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	8	F	6	22	F	6
Petroleum Ether (60/80)	8032-32-4	V	3	F	1	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	6	F	1	18	M	1
Phenol (7% w/v Aqueous Sol.)	108-95-2	T, C, Skin	15	S	6	17	M	6	19	S	6	45	S	6	>480	O	6	
Phenol (Aq. 80% w/w)	108-95-2	T, C, Skin	13	S	5	15	S	1	17	S	5	39	S	5	>480	O	6	
Picric Acid (Sald. Ethanol Sol.)	88-89-1	T, Skin	8	S	4	8	S	4	8	S	4	28	S	4	200	O	6	
Potassium Hydroxide (50% Aq. Sol.)	1310-58-3	C, Caution	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Propanol (Propyl Alcohol)	71-23-8	X, Skin	7	S	2	8	S	6	8	S	6	20	S	6	43	O	6	
Pyridine	110-86-1	X	12	F	1	13	F	1	15	F	1	36	F	2	77	F	2	
Sodium Carbonate (Sald. Aq. Sol.)	497-19-8	Xi	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Sodium Chloride (Sald. Aq. Sol.)	7647-14-5	None	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Sodium Hydroxide (50% Aq. Sol.)	1310-73-2	Cx, Caution	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Sodium Hypochlorite (Sald. Aq. Sol.)	7681-52-9	C, Caution	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Styrene	100-42-5	X, Skin	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	4	F	4	18	F	4
Styrene Sol. (Poly. resin 40% Styrene)	-	X, Skin	8	M	3	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	17	S	4	78	S	4
Sulfuric Acid (50% Aq. Sol.)	7664-93-9	C, x, Caution	>480	O	6	>480	O	6	>480	O	6	>480	O	6	>480	O	6	
Sulfuric Acid (98%)	7664-93-9	C, x, Caution	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	115	F	1	119	F	1
Toluene	108-88-3	X, Skin	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	5	F	1	11	F	1
Toluene Diisocyanate (TDI)	584-84-9	Tx, Sensitizer	9	F	6	Not Recommended	Not Recommended	11	F	6	29	F	6	54	F	6		
Trichloroethylene	79-01-6	X	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	9	F	0
Triethylamine	121-44-8	C, X, Caution	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	8	F	1	20	F	1
Turpentine	8006-64-2	X, Sensitizer	12	S	0	9	S	0	15	S	0	25	S	0	120	S	1	
Unleaded Gasoline	8006-61-9	X	4	F	0	Not Recommended	Not Recommended	5	F	0	7	M	1	23	M	1		
Xylene	1330-20-7	X, Caution	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	8	F	1	16	F	5

Instructions for use

1. Establish the chemicals with which the gloves will come into contact.
2. Reading across the chart from the relevant chemical, use the color coding as a quick reference to find suitable gloves.
3. Select the most appropriate glove by looking at the individual glove's performance in the Breakthrough-Detection Time, Permeation Rate and Degradation Rating columns.

MAKING SENSE OF THE DATA



If in doubt over selection, or the chemical or combination of chemicals are not featured in the chart, call PIP—Protective Industrial Products—the exclusive supplier of Marigold® Industrial gloves in the U.S. and Mexico, and we will recommend the right glove for your application.



"USEFUL TIME" COLOR CODES

These color codes are based on permeation-resistance test results (breakthrough-detection time and permeation rate) and degradation test results for suggesting a "useful time" for glove protection against a specific chemical. The "useful time" color code is intended to indicate the maximum time a glove can be used before permeation and/or degradation affect glove performance. "Useful times" are based on the lower of the two performance ratings, either the permeation breakthrough-detection time or degradation score.

KEY

	greater than 480 minutes
	241-480 minutes
	121-240 minutes
	61-120 minutes
	31-60 minutes
	11-30 minutes
	1-10 minutes
	<small>splash protection only, not for total immersion</small>
	NOT RECOMMENDED

RISK CODES

The following key refers to "Risk Codes" based on designations published in the Official Gazette of the European Community's "Guide to Classification and Marking of Hazardous Substances." These codes are listed below:

Tx	highly toxic
T	toxic
Cx	highly corrosive
C	corrosive
X	harmful
Xi	irritant
V	potential harmful
None	no risk
–	no code provided

The "skin" designation alerts the user to those chemicals which are believed to present a significant risk of skin absorption and consequent toxicity as identified under OSHA's Permissible Exposure Limits in 29 CFE 1910.1000 table Z-1-A.

Other risk codes are from Forsberg, K. and Mansdorf, S.Z., Quick Selection Guide to Chemical Protective Clothing, Second Edition, Van Nostrand Reinhold, New York, 1993.

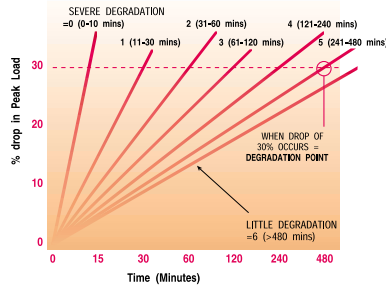


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Contact PIP at the referenced phone and fax or at sales@pipusa.com or www.pipusa.com

DEGRADATION

THE EFFECT OF A CHEMICAL ON A GLOVE'S STRUCTURE On contact with certain chemicals, a glove may lose one or more of its original physical qualities. Exposed gloves may become stiffer and more brittle or softer and weaker. Generally, a loss of shape will occur. This effect is called **DEGRADATION (DEGN)**.

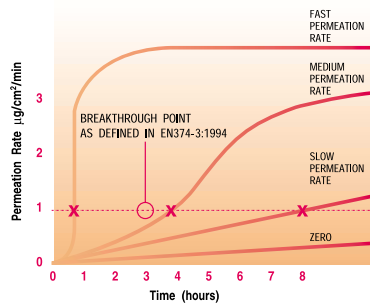


DEGRADATION MEASUREMENT

Two specimens are cut from a glove. The outer surface of one specimen is exposed to a chemical for a defined period. Both the exposed and unexposed samples are tested to determine their resistance to breaking under tension. The percentage change under tension after exposure for 30 minutes, 120 minutes, 240 minutes and 360 minutes are used to determine the rate of change in resistance to breaking under tension. The estimated time for a loss of 30% tensile strength is used to recommend a useful time for the gloves.

PERMEATION

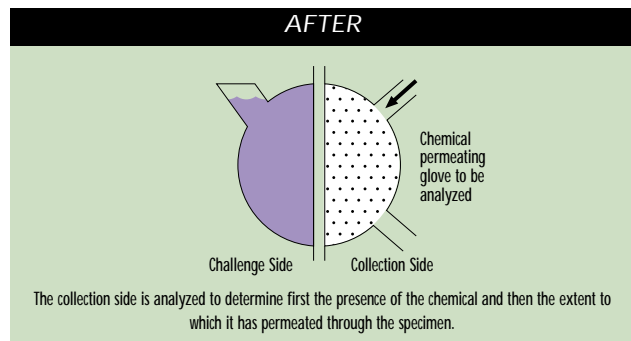
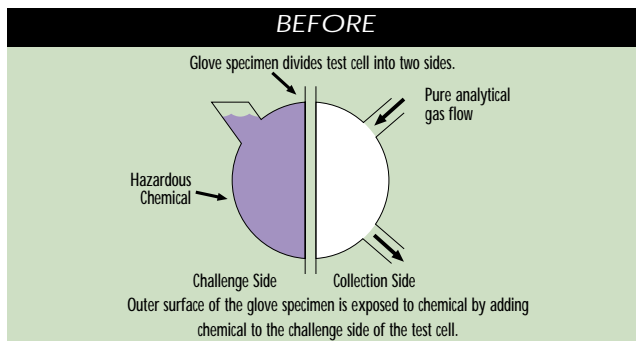
TRANSFER OF A CHEMICAL THROUGH A GLOVE ON A MOLECULAR LEVEL Chemicals can affect a glove in a more subtle manner. Some chemical molecules can pass into the glove material and diffuse through the material to the glove interior. This process can occur even though there are no openings or holes and is known as **PERMEATION**. Permeation can occur without any visible signs of degradation. Permeation data consist of two measures: Breakthrough-Detection Time and Permeation Rate.



- I **BREAKTHROUGH-DETECTION TIME (BDT)** – the time it takes for a chemical to pass through the glove material measured in minutes.
- II **PERMEATION RATE (PR)** – the rate that the chemical passes through the glove after breakthrough, represented in the chart as Fast (F), Medium (M), Slow (S) and Zero (O). These qualitative permeation rates are established as follows:
 - Fast: steady-state permeation rates over 1,000 $\mu\text{g}/\text{cm}^2\text{min}$
 - Medium: steady-state permeation rates between 100 and 1,000 $\mu\text{g}/\text{cm}^2\text{min}$
 - Slow: steady-state permeation rates between 0 and 100 $\mu\text{g}/\text{cm}^2\text{min}$

PERMEATION TESTING

1. A circular specimen is cut from the glove and placed in a test cell, dividing the test cell into two compartments.
2. The outer surface of the glove specimen is exposed to a chemical by adding the chemical to the challenge side of the test cell so that the entire glove specimen is contacted with the chemical (this is equivalent to complete immersion of the glove).
3. At measured time intervals, the collection side of the test cell is sampled and analyzed for the presence of the chemical which has permeated the glove specimen.
4. The breakthrough-detection time is set at the time when the initial detection of the chemical occurs. Subsequent measurement of permeation over time is used to calculate the permeation rate.
5. Permeation testing is conducted for a period of 8 hours in accordance with ASTM F 739. The principal difference between ASTM F 739 and EN 374, Part 3, is that initial detection for breakthrough is defined at 1.0 $\mu\text{g}/\text{cm}^2\text{min}$ for EN 374, Part 3, whereas breakthrough is defined as 0.1 $\mu\text{g}/\text{cm}^2\text{min}$ for ASTM F 739.



PIP New York
Corporate Headquarters
Building 4, Northeastern Industrial Park
Guilderland Center, NY 12085
☎ + (800) 262 5755
☎ + (518) 861 0144

PIP California
Sales & Distribution Center
13518 Imperial Highway
Santa Fe Springs, CA 90670
☎ + (800) 225 9225
☎ + (562) 407 2321

PIP Tennessee
Sales & Distribution Center
P.O.Box 16983, Tranquility Drive
Memphis, TN 38186
☎ + (888) 456 8378
☎ + (901) 332 9358

Marigold Industrial Canada
100 Courtland Avenue
Concord, Ontario
Canada L4K 3T6
☎ + (800) 267 8700
☎ + (800) 267 2484