

# Chemical Compatibility Guide for: SHOWA 5005PF Natural Rubber Disposable Latex Gloves

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5005PF Permeation Data

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Chemical	CAS Number	TTL	INT
		ASTM F739	ASTM F1383
		BT	BT
		(minutes)	(minutes)
Acetic Acid, 5%	64-19-7	>480	>240
Acetic Acid, 10%	64-19-7	>480	>240
Acetic Acid, 25%	64-19-7	94	NT
Acetic Acid, 50%	64-19-7	7	NT
Acetic Acid, 84%	64-19-7	2	NT
Acetic Acid, 99%	64-19-7	1	1
Acetone	67-64-1	<1	<1
Acetonitrile	75-05-8	<1	<1
Acrylonitrile	107-13-1	<1	<1
Allyl Alcohol	107-18-6	1	1
Ammonium Hydroxide, 25%	1336-21-6	2	NT
Benzene	71-43-2	<1	<1
Butyl Acrylate	141-32-2	<1	<1
Carbon Tetrachloride	56-23-5	<1	<1
Dichloropropane, 1,2-	78-87-5	<1	1
Diethylamine	109-89-7	<1	<1
Dimethylformamide-N, N	68-12-2	1	1
Ethanol	64-17-5	<1	<1
Ethyl Acetate	141-78-6	<1	<1
Ethylene Dichloride	107-06-2	<1	<1
Formaldehyde, 37%	50-00-0	<1	<1
Heptane	142-82-5	<1	<1
Hexane	110-54-3	<1	<1
Hydrochloric Acid, 10%	7647-01-0	NT	>240
Hydrochloric Acid, 20%	7647-01-0	NT	>240
Hydrochloric Acid, 32%	7647-01-0	NT	>240
Hydrochloric Acid, 37%	7647-01-0	57	>240
Hydrofluoric Acid, 48%	7664-39-3	52	NT
Hydrogen peroxide solution, 30%	7722-84-1	11 to 30	NT
Isopropyl Alcohol	67-63-0	1	1
Methanol	67-56-1	<1	<1

**5005PF Permeation Data**

<u>Chemical</u>	<u>CAS Number</u>	TTL	INT
		ASTM F739 BT (minutes)	ASTM F1383 BT (minutes)
Methyl Ethyl Ketone	78-93-3	<1	<1
Methyl Tert-Butyl Ether	1634-04-4	<1	NT
Methylene Chloride	75-09-2	<1	<1
Nitric Acid, 35%	7697-37-2	174	NT
Nitric Acid, 50%	7697-37-2	87	91
Nitric Acid, 65%	7697-37-2	4	7
Nitric Acid, 70%	7697-37-2	2	7
Pentane	109-66-0	<1	<1
Sulfuric Acid, 47%	7664-93-9	398	>240
Sulfuric Acid, 50%	7664-93-9	398	>240
Sulfuric Acid, 70%	7664-93-9	216	NT
Sulfuric Acid, 93%	7664-93-9	2	50
Sulfuric Acid, 96%	7664-93-9	2	50
Tetrachloroethylene	127-18-4	<1	NT
Toluene	108-88-3	<1	<1
Trichloroethylene	79-01-6	<1	<1
Xylene	1330-20-7	<1	<1

**Permeation Legend and Explanation**

Permeation is the act of a chemical passing through a solid material, such as personal protective clothing, on a molecular level.

TTL : Total immersion chemical permeation breakthrough time (maximum test duration of 480 minutes).

INT : Intermittent contact chemical permeation breakthrough time, one minute immersion out of every ten minutes repeatedly, up to maximum test duration of 240 minutes.

The information provided in this chart is intended to help you determine the general suitability of SHOWA gloves in the end-user's particular application. It is the responsibility of the purchaser and/or user to determine the level of toxicity of the materials to be handled and to select the proper glove suitable for a particular application. The information provided reflects laboratory performance of gloves under carefully controlled conditions. SHOWA makes no guarantee of results and assumes no obligation or liability in connection with this information.