# Chemical Compatibility Guide for:
# SHOWA 8005PF Biodegradable Disposable Nitrile Gloves

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New Pig
One Pork Avenue
Tipton, PA 16684-0304

**newpig.com**
North America: **1-800-468-4647**
Europe: **+31 (0)76 596 92 50**
China: **+86-21-400 921 5178**
UK: **0800 919 900**
Outside North America: **+1-814-684-0101**



365173
07/2023

# 8005PF

Material Nitrile LENGTH 9.5 in. / 240mm


## CHEMICAL PERMEATION

| CHEMICAL NAME | CAS NUMBER | BDT | |
|---|---|---|---|
| | | TTL ASTM F739 | INT ASTM F1383 |
| Formaldehyde 37% | 50-00-0 | >30 | >30 |
| 2-Hydroxypropionic acid 85% | 50-21-5 | >480 | >240 |
| Carbon Tet | 56-23-5 | 1-5 | 1-5 |
| 1,2-Propanediol | 57-55-6 | >480 | >240 |
| Diethyl Ether | 60-29-7 | 1-5 | 1-5 |
| Aminobenzene | 62-53-3 | 6-10 | 6-10 |
| Ethanol | 64-17-5 | NT | >30 |
| Formic Acid 90% | 64-18-6 | 1-5 | NT |
| Acetic Acid 84% | 64-19-7 | 6-10 | NT |
| Acetic Acid 50% | 64-19-7 | >30 | NT |
| Acetic Acid 99% | 64-19-7 | 6-10 | NT |
| Methanol | 67-56-1 | NT | 6-10 |
| 2-Propanol | 67-63-0 | >60 | NT |
| 2-Propanone | 67-64-1 | <1 | <1 |
| Chloroform | 67-66-3 | NT | <1 |
| Dimethylsulfoxide (DMSO) | 67-68-5 | >10 | >10 |
| Dimethyl Formamide | 68-12-2 | NT | 1-5 |
| n-Propanol | 71-23-8 | >30 | >60 |
| Butanol | 71-36-3 | >60 | >120 |
| Alcohol, Amyl | 71-41-0 | NT | >60 |
| Benzene | 71-43-2 | 1-5 | 1-5 |
| 1,1,1-Trichloroethane | 71-55-6 | 1-5 | 6-10 |
| Iodide, Methyl | 74-88-4 | NT | <1 |
| ETHYLAMINE 70% | 75-04-7 | NT | <1 |
| Acetonitrile | 75-05-8 | 1-5 | 1-5 |
| Acetaldehyde | 75-07-0 | NT | <1 |

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|---|---|---|---|
| Chloride, Methylene | 75-09-2 | NT | <1 |
| Carbon Disulfide | 75-15-0 | <1 | <1 |
| Bromoform | 75-25-2 | <1 | <1 |
| 1,1-Dichloroethene | 75-35-4 | 1-5 | NT |
| Acetyl Chloride | 75-36-5 | 1-5 | 1-5 |
| Nitromethane | 75-52-5 | <1 | <1 |
| 1,2-Epoxypropane | 75-56-9 | <1 | <1 |
| Tetramethylammonium Hydroxide 25% | 75-59-2 | >480 | >240 |
| Dimethyl Sulfate | 77-78-1 | 1-5 | 1-5 |
| Citric Acid 30% | 77-92-9 | >480 | >240 |
| Citric Acid 99% | 77-92-9 | >480 | >240 |
| Citric Acid 50% | 77-92-9 | >480 | >240 |
| Citric Acid 75% | 77-92-9 | >480 | >240 |
| 2-Butanol | 78-83-1 | >60 | >240 |
| Dichloropropane, 1,2- | 78-87-5 | 1-5 | 1-5 |
| 2-Butanone | 78-93-3 | 1-5 | 1-5 |
| Ethylene, Trichloride | 79-01-6 | NT | 1-5 |
| 2-Propeneamide(s) 99% | 79-06-1 | >480 | >240 |
| 2-Propeneamide 50% | 79-06-1 | >480 | >240 |
| Acetate, Methyl | 79-20-9 | <1 | <1 |
| PERACETIC ACID 39% | 79-21-0 | 1-5 | NT |
| Nitro Propane | 79-46-9 | NT | <1 |
| Methacrylate, Methyl | 80-62-6 | NT | 1-5 |
| DBP | 84-74-2 | >120 | >120 |
| Vinyl Pyrrolidinone | 88-12-0 | 1-5 | NT |
| Biphenyl 27% | 92-52-4 | <1 | <1 |
| Dichlorobenzene O- | 95-50-1 | 1-5 | NT |
| 2-Aminotoluene | 95-53-4 | NT | 1-5 |
| 1,2,4 - Trimethyl Benzene 98% | 95-63-6 | >10 | >60 |
| Pseudocumene | 95-63-6 | 1-5 | 1-5 |
| Butanone Oxime | 96-29-7 | NT | >60 |
| 2-Ethylbutyl alcohol | 97-95-0 | NT | 1-5 |
| 2-Furaldehyde | 98-01-1 | NT | 1-5 |
| Butyl Toluene, p-Tert | 98-51-1 | NT | >30 |
| (1-Methylethyl)benzene | 98-82-8 | 1-5 | 1-5 |
| Cyclohexyldimethylamine | 98-94-2 | >10 | >30 |
| Nitrobenzene | 98-95-3 | NT | 1-5 |

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| Benzene, Ethyl | 100-41-4 | 1-5 | 1-5 |
| Benzene, Vinyl | 100-42-5 | 1-5 | NT |
| Alcohol, Benzyl | 100-51-6 | NT | 1-5 |
| Benzaldehyde | 100-52-7 | <1 | <1 |
| 2,2′,2″-Nitrilotriethanol | 102-71-6 | NT | >30 |
| Dimethylpiperazine | 106-58-1 | >30 | >60 |
| 1,2-Dichloroethane | 107-06-2 | NT | 1-5 |
| Acrylonitrile | 107-13-1 | 1-5 | NT |
| 1,2-Diaminoethane 99% | 107-15-3 | NT | 1-5 |
| 2-Propen-1-ol | 107-18-6 | 6-10 | 6-10 |
| 1,2-Ethanediol | 107-21-1 | >480 | >240 |
| Methyl Propyl Ketone | 107-87-9 | NT | 1-5 |
| 1-methoxy-2-propanol | 107-98-2 | >10 | NT |
| Acetate, Vinyl | 108-05-4 | <1 | <1 |
| 2-Pentanone, Methyl- | 108-10-1 | NT | 1-5 |
| Acetate, Isopropyl | 108-21-4 | NT | 1-5 |
| PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE | 108-65-6 | NT | 6-10 |
| 2,6-Dimethyl-4-Heptanone | 108-83-8 | >10 | >10 |
| Benzene, Methyl | 108-88-3 | 1-5 | 1-5 |
| Benzene Chloride | 108-90-7 | 1-5 | 6-10 |
| Cyclohexanol | 108-93-0 | >120 | NT |
| Cyclohexanone | 108-94-1 | 1-5 | 6-10 |
| Carbolic Acid(s) 100% | 108-95-2 | >10 | >10 |
| Carbolic Acid 89% | 108-95-2 | NT | 6-10 |
| Carbolic Acid 10% | 108-95-2 | 6-10 | 6-10 |
| Dimethyl Propaneamide, N,N'- | 109-55-7 | 1-5 | 1-5 |
| Acetate, Propyl | 109-60-4 | 1-5 | 1-5 |
| Pentane | 109-66-0 | >120 | >240 |
| 1-Aminobutane | 109-73-9 | NT | <1 |
| Diethylamine | 109-89-7 | NT | 1-5 |
| Diethylene Oxide | 109-99-9 | NT | 1-5 |
| Hexane | 110-54-3 | >120 | >240 |
| 2-Ethoxyethanol | 110-80-5 | 1-5 | 6-10 |
| Cyclohexane | 110-82-7 | >120 | NT |
| PYRIDINE | 110-86-1 | NT | <1 |
| Diethylene oximide | 110-91-8 | NT | <1 |
| 1,5-Pentanedial 50% | 111-30-8 | >60 | >240 |

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| 2,2-iminodiethanol | 111-42-2 | >30 | >30 |
| Diethylene Glycol | 111-46-6 | >480 | >240 |
| n-Octane | 111-65-9 | >480 | >240 |
| 2-Butoxyethanol | 111-76-2 | >30 | >30 |
| n-Octanol | 111-87-5 | >30 | >30 |
| Oleic Acid 98% | 112-80-1 | >480 | >240 |
| 1,2,4-Trichlorobenzene | 120-82-1 | NT | 1-5 |
| TRIETHYLAMINE | 121-44-8 | >10 | >60 |
| 4-Hydroxy-4-methyl-2-pentanone | 123-42-2 | 1-5 | NT |
| 3-Methyl-1-butanol | 123-51-3 | >60 | >60 |
| Butyl Acetate | 123-86-4 | 1-5 | NT |
| 1,4-Dioxane | 123-91-1 | 1-5 | 1-5 |
| 3-Methylbutyl Ethanoate | 123-92-2 | <1 | <1 |
| PERC | 127-18-4 | 1-5 | 1-5 |
| Dimethylacetamide N,N- | 127-19-5 | 1-5 | 1-5 |
| Butyl Acrylate | 141-32-2 | 1-5 | 6-10 |
| 2-Aminoethanol | 141-43-5 | 1-5 | 1-5 |
| Ethyl Acetate | 141-78-6 | NT | 1-5 |
| Heptane | 142-82-5 | >480 | NT |
| Butoxytriglycol | 143-22-6 | >10 | >10 |
| OXALIC ACID (s) 99% | 144-62-7 | >480 | >240 |
| Calcium Carbonate (s) 99% | 471-34-1 | >480 | >240 |
| NINHYDRIN | 485-47-2 | >480 | >240 |
| Trimethyl Phosphate | 512-56-1 | 1-5 | NT |
| 2,2,4-Trimethyl Pentane | 540-84-1 | >240 | >240 |
| 3-Methyl-2-Butanone | 563-80-4 | 1-5 | 1-5 |
| Butyl Ethylene | 592-41-6 | >10 | >30 |
| Amyl Acetate | 628-63-7 | NT | 1-5 |
| Methyl Pyrrolidone, N- | 872-50-4 | NT | 6-10 |
| 2-Bromoethyl Acetate | 927-68-4 | 1-5 | 1-5 |
| Hexamethyldisilazane | 999-97-3 | >480 | >240 |
| Glyphosate Roundup 95% | 1071-83-6 | >480 | >240 |
| 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 1% | 1239-45-8 | >480 | >240 |
| 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 95% | 1239-45-8 | >480 | >240 |
| 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 5% | 1239-45-8 | >480 | >240 |
| Calcium Hydroxide (s) 95% | 1305-62-0 | >480 | >240 |
| Caustic Potash 10% | 1310-58-3 | >480 | >240 |

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|---|---|---|---|
| Caustic Potash 99% | 1310-58-3 | >480 | >240 |
| Caustic Potash 45% | 1310-58-3 | >480 | >240 |
| Caustic Soda 40% | 1310-73-2 | >480 | >240 |
| Caustic Soda 50% | 1310-73-2 | >480 | >240 |
| Caustic Soda 10% | 1310-73-2 | >480 | >240 |
| Caustic Soda 98% | 1310-73-2 | >480 | >240 |
| Cresols | 1319-77-3 | 1-5 | NT |
| Divinyl Benzene | 1321-74-0 | 1-5 | 1-5 |
| dimethyl benzene | 1330-20-7 | NT | 1-5 |
| Chromic Acid Solution 50% | 1333-82-0 | <1 | <1 |
| Ammonia Solution 29% | 1336-21-6 | >30 | >120 |
| Gallotannin 95% | 1401-55-4 | >480 | >240 |
| Methyl-Tert-Butyl Ether | 1634-04-4 | >10 | >10 |
| 2-Propoxyethanol | 2807-30-9 | >10 | >30 |
| Butoxypropanol | 5131-66-8 | >60 | >60 |
| D-Limonene | 5989-27-5 | 6-10 | 6-10 |
| Hydrochloric Acid 10% | 7647-01-0 | >480 | >240 |
| Hydrochloric Acid 37% | 7647-01-0 | >240 | NT |
| Muriatic Acid 20% | 7647-01-0 | >480 | >240 |
| Muriatic Acid 32% | 7647-01-0 | >480 | >240 |
| Phosphoric Acid 10% | 7664-38-2 | >480 | >240 |
| Phosphoric Acid 50% | 7664-38-2 | >480 | >240 |
| Phosphoric Acid 85% | 7664-38-2 | >480 | >240 |
| Hydrofluoric Acid 40% | 7664-39-3 | >10 | NT |
| Hydrofluoric Acid 48% | 7664-39-3 | >10 | >30 |
| Hydrofluoric Acid 30% | 7664-39-3 | >30 | NT |
| Battery Acid 50% | 7664-93-9 | >480 | >240 |
| Battery Acid 70% | 7664-93-9 | >240 | >240 |
| Battery Acid 47% | 7664-93-9 | >480 | >240 |
| Battery Acid 10% | 7664-93-9 | >480 | >240 |
| Battery Acid 25% | 7664-93-9 | >480 | >240 |
| Bleach: Sodium Hypochlorite 12% | 7681-52-9 | >480 | >240 |
| Bleach: Sodium Hypochlorite 6% | 7681-52-9 | >480 | >240 |
| Nitric Acid 65% | 7697-37-2 | 1-5 | NT |
| Nitric Acid 50% | 7697-37-2 | >10 | NT |
| Nitric Acid 70% | 7697-37-2 | 1-5 | >10 |
| Nitric Acid 10% | 7697-37-2 | >480 | >240 |

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| Nitric Acid 23% | 7697-37-2 | >480 | >240 |
| Hydrogen Peroxide 30% | 7722-84-1 | >480 | >240 |
| Hydroxylamine 50% | 7803-49-8 | >480 | >240 |
| Gasoline (unleaded) | 8006-61-9 | 6-10 | >10 |
| Fir Oil | 8006-64-2 | >120 | >240 |
| Kerosene | 8008-20-6 | >30 | >60 |
| Oleum (20% Free SO3) | 8014-95-7 | <1 | <1 |
| Ligroin | 8032-32-4 | >10 | >60 |
| Dry Cleaning Mineral Spirits | 8052-41-3 | >240 | NT |
| Hydrobromic Acid 48% | 10035-10-6 | >480 | >240 |
| Tetrachloropropene | 10436-39-2 | 1-5 | 1-5 |
| Ammonium Fluroide 40% | 12125-01-8 | >480 | >240 |
| 2-Chloro-2-Oxoethyl Acetate | 13831-31-7 | 1-5 | 1-5 |
| Fluoboric Acid 49% | 16872-11-0 | >30 | >60 |
| Pentachloropropane | 23153-23-3 | 6-10 | 6-10 |
| Antimony Tributyrate 95% | 53856-17-0 | >480 | >240 |
| Dry cleaning safety solvent | 64475-85-0 | >480 | >240 |
| Kerosene (hydrodesulfurized) | 64742-81-0 | >480 | >240 |
| Diesel Oil | 68334-30-5 | >480 | >240 |
| Diesel Fuel #2 | 68476-34-6 | >480 | >240 |

## BDT=BREAKTHROUGH DETECTION TIME

THE LEVEL (0 TO 6) INDICATES THE TIME REQUIRED FOR DIFFERENT CHEMICALS TO PERMEATE THROUGH THE GLOVE.
TTL : TOTAL IMMERSION CHEMICAL PERMEATION BREAKTHROUGH TIME.
INT : INTERMITTENT CONTACT CHEMICAL PERMEATION BREAKTHROUGH TIME, ONE MINUTE IMMERSION OUT OF EVERY TEN, REPEATEDLY.

## Warranty Limitations and Disclaimer Use

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