

# Chemical Compatibility Guide for: SHOWA 728 Biodegradable Nitrile Gloves

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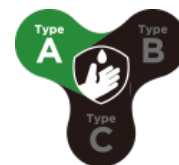
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# 728

Material Nitrile LENGTH 13 in. / 330mm



## CHEMICAL PERMEATION

| CHEMICAL NAME         | CAS NUMBER | BDT              |                   |
|-----------------------|------------|------------------|-------------------|
|                       |            | TTL<br>ASTM F739 | INT<br>ASTM F1383 |
| Formaldehyde 37%      | 50-00-0    | >480             | >240              |
| Carbon Tet            | 56-23-5    | >240             | >240              |
| 1,2-Propanediol       | 57-55-6    | >480             | >240              |
| Diethyl Ether         | 60-29-7    | 6-10             | 6-10              |
| Ethanol               | 64-17-5    | >120             | >240              |
| Acetic Acid 50%       | 64-19-7    | >480             | >240              |
| Acetic Acid 84%       | 64-19-7    | >60              | NT                |
| Methanol              | 67-56-1    | >10              | >60               |
| 2-Propanol            | 67-63-0    | >480             | >240              |
| 2-Propanone           | 67-64-1    | 1-5              | 1-5               |
| Chloroform            | 67-66-3    | NT               | 1-5               |
| n-Propanol            | 71-23-8    | >120             | >240              |
| Butanol               | 71-36-3    | >480             | >240              |
| Benzene               | 71-43-2    | NT               | >30               |
| ETHYLAMINE            | 75-04-7    | 1-5              | 1-5               |
| Acetonitrile          | 75-05-8    | 1-5              | NT                |
| Chloride, Methylene   | 75-09-2    | 1-5              | 1-5               |
| Nitromethane          | 75-52-5    | 1-5              | 1-5               |
| 1,2-Epoxypropane      | 75-56-9    | 1-5              | NT                |
| 2-Butanol             | 78-83-1    | >480             | >240              |
| Dichloropropane, 1,2- | 78-87-5    | >10              | >10               |
| Ethylene, Trichloride | 79-01-6    | 6-10             | 6-10              |
| Chloroacetic Acid 70% | 79-11-8    | >480             | >240              |
| Acetate, Methyl       | 79-20-9    | 1-5              | NT                |
| Dichlorobenzene O-    | 95-50-1    | 6-10             | 6-10              |
| Butanone Oxime        | 96-29-7    | >240             | >240              |

|                          |          |      |      |
|--------------------------|----------|------|------|
| 2-Ethylbutyl alcohol     | 97-95-0  | >480 | >240 |
| 2-Furaldehyde            | 98-01-1  | 6-10 | 6-10 |
| Butyl Toluene, p-Tert    | 98-51-1  | >480 | >240 |
| Nitrobenzene             | 98-95-3  | 6-10 | 6-10 |
| Benzene, Ethyl           | 100-41-4 | >30  | >30  |
| Benzene, Vinyl           | 100-42-5 | >10  | >10  |
| Benzaldehyde             | 100-52-7 | 6-10 | 6-10 |
| 1,2-Dichloroethane       | 107-06-2 | 1-5  | 1-5  |
| Acrylonitrile            | 107-13-1 | 1-5  | 1-5  |
| 1,2-Diaminoethane        | 107-15-3 | >10  | >10  |
| 2-Propen-1-ol            | 107-18-6 | >30  | >30  |
| Methyl Propyl Ketone     | 107-87-9 | 1-5  | 6-10 |
| 1-methoxy-2-propanol     | 107-98-2 | >60  | >120 |
| Acetate, Vinyl           | 108-05-4 | 6-10 | 6-10 |
| 2-Pentanone, Methyl-     | 108-10-1 | NT   | >10  |
| 2,6-Dimethyl-4-Heptanone | 108-83-8 | >240 | >240 |
| Benzene Chloride         | 108-90-7 | 6-10 | 6-10 |
| Cyclohexanol             | 108-93-0 | >480 | >240 |
| Cyclohexanone            | 108-94-1 | >30  | >30  |
| Pentane                  | 109-66-0 | >480 | >240 |
| 1-Aminobutane            | 109-73-9 | 6-10 | 6-10 |
| DEA                      | 109-89-7 | >10  | >10  |
| Hexane                   | 110-54-3 | >480 | >240 |
| Cyclohexane              | 110-82-7 | >480 | >240 |
| 1,5-Pentanedial 50%      | 111-30-8 | >60  | >240 |
| 2,2-iminodiethanol       | 111-42-2 | >60  | >60  |
| n-Octane                 | 111-65-9 | >480 | >240 |
| 2-Butoxyethanol          | 111-76-2 | >120 | >240 |
| n-Octanol                | 111-87-5 | >480 | >240 |
| Oleic Acid               | 112-80-1 | >480 | >240 |
| 3-Methyl-1-butanol       | 123-51-3 | >480 | >240 |
| 1,4-Dioxane              | 123-91-1 | 6-10 | 6-10 |
| Dimethylamine 40%        | 124-40-3 | >480 | >240 |
| PERC                     | 127-18-4 | >120 | >240 |
| Ethyl Acetate            | 141-78-6 | 6-10 | >10  |
| Heptane                  | 142-82-5 | >480 | >240 |
| OXALIC ACID (s)          | 144-62-7 | >480 | >240 |

|                              |            |      |      |
|------------------------------|------------|------|------|
| 2,2,4-Trimethyl Pentane      | 540-84-1   | >480 | >240 |
| Methyl Pyrrolidone, N-       | 872-50-4   | >10  | >10  |
| Hexamethyldisilazane         | 999-97-3   | >480 | >240 |
| Caustic Potash 45%           | 1310-58-3  | >480 | >240 |
| Caustic Potash 10%           | 1310-58-3  | >480 | >240 |
| Caustic Potash 99%           | 1310-58-3  | >480 | >240 |
| Caustic Soda 98%             | 1310-73-2  | >480 | >240 |
| Caustic Soda 40%             | 1310-73-2  | >480 | >240 |
| Caustic Soda 10%             | 1310-73-2  | >480 | >240 |
| Caustic Soda 50%             | 1310-73-2  | >480 | >240 |
| Ammonia Solution 29%         | 1336-21-6  | >120 | NT   |
| Butoxypropanol               | 5131-66-8  | >480 | >240 |
| Muriatic Acid 32%            | 7647-01-0  | >480 | >240 |
| Hydrochloric Acid 37%        | 7647-01-0  | >480 | >240 |
| Hydrochloric Acid 10%        | 7647-01-0  | >480 | >240 |
| Muriatic Acid 20%            | 7647-01-0  | >480 | >240 |
| Phosphoric Acid 85%          | 7664-38-2  | >480 | >240 |
| Hydrofluoric Acid 48%        | 7664-39-3  | >30  | NT   |
| Battery Acid 70%             | 7664-93-9  | >240 | >240 |
| Battery Acid 10%             | 7664-93-9  | >480 | >240 |
| Battery Acid 96%             | 7664-93-9  | >60  | >60  |
| Battery Acid 25%             | 7664-93-9  | >480 | >240 |
| Battery Acid 50%             | 7664-93-9  | >480 | >240 |
| Battery Acid 47%             | 7664-93-9  | >480 | >240 |
| Battery Acid 93%             | 7664-93-9  | >60  | >60  |
| Nitric Acid 65%              | 7697-37-2  | >30  | NT   |
| Nitric Acid 50%              | 7697-37-2  | >120 | NT   |
| Nitric Acid 23%              | 7697-37-2  | >480 | >240 |
| Nitric Acid 10%              | 7697-37-2  | >480 | >240 |
| Hydrogen Peroxide 30%        | 7722-84-1  | >480 | >240 |
| Fir Oil                      | 8006-64-2  | >240 | >240 |
| Ligroin                      | 8032-32-4  | >60  | >240 |
| Dry Cleaning Mineral Spirits | 8052-41-3  | >480 | >240 |
| Kerosene (hydrosulfurized)   | 64742-81-0 | >480 | >240 |
| Diesel Oil                   | 68334-30-5 | >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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