

## Alto 285

| Chemical Product                     | CAS #     | Breakthrough time (minutes) | Permeation level | Standard        | Degradation level | Rating |
|--------------------------------------|-----------|-----------------------------|------------------|-----------------|-------------------|--------|
| Acetic acid 10%                      | 64-19-7   | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Acetic acid 99%                      | 64-19-7   | 138                         | 4                | EN 374-3:2003   | NT                | NA     |
| Acetone 99%                          | 67-64-1   | 103                         | 3                | EN 16523-1:2015 | 2                 | +      |
| Dimethylformamide 99%                | 68-12-2   | 147                         | 4                | EN 374-3:2003   | NT                | NA     |
| Ethanol 95%                          | 64-17-5   | 160                         | 4                | EN 374-3:2003   | NT                | NA     |
| Formaldehyde 37%                     | 50-00-0   | 480                         | 6                | EN 16523-1:2015 | 4                 | ++     |
| Hydrochloric acid 10%                | 7647-01-0 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Hydrochloric acid 35%                | 7647-01-0 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Hydrogen peroxide 30%                | 7722-84-1 | 480                         | 6                | EN 16523-1:2015 | 3                 | ++     |
| Methanol 99%                         | 67-56-1   | 331                         | 5                | EN 16523-1:2015 | 4                 | ++     |
| Methyl Ethyl Ketone (2-Butanone) 99% | 78-93-3   | 25                          | 1                | EN 374-3:2003   | NT                | NA     |
| N-methyl-2-Pyrrolidone 99%           | 872-50-4  | 210                         | 4                | EN 374-3:2003   | NT                | NA     |
| Nitric acid 65%                      | 7697-37-2 | 480                         | 6                | EN 16523-1:2015 | 4                 | ++     |
| Phosphoric acid 75%                  | 7664-38-2 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Phosphoric acid 85%                  | 7664-38-2 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Sodium hydroxide 20%                 | 1310-73-2 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Sodium hydroxide 40%                 | 1310-73-2 | 480                         | 6                | EN 16523-1:2015 | 4                 | ++     |
| Sodium hydroxide 50%                 | 1310-73-2 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Sulfuric acid 10%                    | 7664-93-9 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Sulfuric acid 40%                    | 7664-93-9 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Sulfuric acid 50%                    | 7664-93-9 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |
| Sulfuric acid 96%                    | 7664-93-9 | 480                         | 6                | EN 374-3:2003   | NT                | NA     |

\*not normalized result

### Overall Chemical Protection Rating

Protection rating is determined by taking into account the effects of both permeation and degradation in an attempt to provide users with an overall protection guideline when using our glove products against specific chemicals.

■ Used for **high chemical exposure** or chemical immersion, limited to breakthrough time based on a working day.

■ Used for **repeated chemical contact**, limited to total chemical exposure i.e. : accumulative breakthrough time based on a working day.

■ **Splash protection only**, on chemical exposure the gloves should be discarded and new gloves worn as soon as possible.

■ **Not recommended**, these gloves are deemed unsuitable for work with this chemical.

□ NT : Not tested

■ NA : Not applicable because not fully tested (only degradation OR permeation results)

The chemical test data and overall chemical protection rating should not be used as the absolute basis for glove selection. Actual in-use conditions may vary glove performance from the controlled conditions of laboratory tests. Factors other than chemical contact time