

Chemical Resistance of the Water-Gate

| | <i>Fluid</i> | <i>Water-Gate (regular) (PVC)</i> | <i>Water-Gate (chemical) (polyethylene)</i> |
|-----------------------------|---------------------------------|---------------------------------------|---|
| <i>Inorganic Acids :</i> | Hydrochloric Acid | 12 hours resistant Minor repairs | 12 hours resistant |
| | Hydrofluoric Acid | 12 hours resistant | 12 hours resistant |
| | Hydrobromic Acid | 12 hours resistant | 12 hours resistant |
| | Nitric Acid | Not recommended | 12 hours resistant Major repairs Leaks |
| | Phosphoric Acid | 12 hours resistant Minor repairs | 12 hours resistant |
| | Sulfuric Acid | Not recommended | Not recommended |
| <i>Bases :</i> | Sodium Hydroxide (50%) | 12 hours resistant Major repairs | 12 hours resistant Major repairs |
| <i>Hydrocarbures :</i> | Diesel | 12 hours resistant | 12 hours resistant |
| <i>Non-polar Solvents :</i> | Petroleum Ether | 12 hours resistant Major repairs | 12 hours resistant |
| | Hexanes | 12 hours resistant Major repairs | 12 hours resistant |
| | p-Xylène | 12 hours resistant | 12 hours resistant |
| | Toluene | 12 hours resistant | 12 hours resistant |
| | Chloroforme | Not recommended | 12 hours resistant Inspection |
| | Dichloromethane | Not recommended | 12 hours resistant Minor repairs |
| <i>Polar Solvents :</i> | Acetone | Not recommended | 12 hours resistant |
| | Acetic Acid Glacial | 12 hours resistant | 12 hours resistant |
| | Ethanol | 12 hours resistant | 12 hours resistant |
| | Methanol | 12 hours resistant | 12 hours resistant |
| | Formaldehyde | Inspection 12 hours resistant | 12 hours resistant |
| | Methyl Ether Ketone | Not recommended | 12 hours resistant Inspection |
| | Tetrahydrofuran | Not recommended | 12 hours resistant |
| <i>Others :</i> | Ethyl Acetate | Not recommended | 12 hours resistant |
| | Acetic Anhydrous | 12 hours resistant | 12 hours resistant |
| | Paint thinner | 12 hours resistant Inspection | 12 hours resistant |
| | Ammonium Hydroxide | 12 hours resistant | 12 hours resistant |
| | Hydrogen Peroxide | 12 hours resistant | 12 hours resistant |
| | Calcium Hydroxide | 12 hours resistant | 12 hours resistant |
| | Ferric Chloride | 12 hours resistant | 12 hours resistant |
| | Sodium Hypochlorite (5%) | 12 hours resistant | 12 hours resistant |

12 hours resistant :

The Water-Gate will resist 12 hours

Inspection :

Check for possible alterations of the containment shell (appearance, rigidity)

Minor repairs :

Alteration of the component(s) of the Water-Gate (containment shell not included)

Major repairs :

Degradation of the containment shell

Not recommended :

The Water-Gate is not resistant to this fluid