

# MAGNASEAL

— a NEOTHANE product —

## MAGNASEAL Products - Chemical Resistivity Testing: ASTM A903 Data Summary

Chemical Tested	Overall (Pass/Fail)	Permeation Test Duration (hours)	Penetration	Discoloration	Deformation	Degradation
Acetic Acid, glacial, 100%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	Mild Degradation
Acetone, 99.8%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	Mild Degradation
Acetonitrile, 99.0%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Ammonium Hydroxide, 30%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Aniline, >99%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	Mild Degradation
Calcium Hypochlorite, 10%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Carbon DiSulfide, 99%	Pass	> 8 hours	No Penetration	No Discoloration	Mild Deformation	Mild Degradation
Chlorobenzene, >99.5%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Dichloromethane, 99.6%	Pass	> 8 hours	No Penetration	No Discoloration	Mild Deformation	Mild Degradation
Diesel Fuel	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Diethylamine, >99.5%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Dimethylformamide, >99%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	Mild Degradation
Ethyl Acetate, >99.8%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Formaldehyde, 37%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Gasoline (unleaded)	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Hexane, >95%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Hydrochloric Acid, 32%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	Mild Degradation
Hydrogen Peroxide, 15%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Methanol, 100%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Nitric Acid, 70%	Pass (Teflon Sheet mandatory)	Smoke and fumes visible after 5 hours, test stopped at this time (standard testing time is 4 hours)	No Penetration	Yes, must use Teflon Sheet	Yes, must use Teflon Sheet	Yes, must use Teflon Sheet
Nitrobenzene, 99%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Phenol, 90%	Pass	> 8 hours	No Penetration	No Discoloration	Mild Deformation	Mild Degradation
Phosphoric Acid, 85%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Sodium Hydroxide, 50%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation
Sulfuric Acid, 96%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	Mild Degradation
Tetrahydrofuran, 99%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	Mild Degradation
Toluene, >99.5%	Pass	> 8 hours	No Penetration	No Discoloration	No Deformation	No Degradation

Bright Green = No Adverse Reaction

Yellow = Indicates Moderate Deformation or Degradation

Standard method for testing resistance of materials is 4 hours duration, this testing exceeded 8 hours. Testing was completed by a third-party quality of assurance lab.