

PERMEATION RESULTS - SEAMS/MATERIALS

| CHEMICAL | SOLUBILITY IN WATER | CONCENTRATION | SPECIFIC WT. | BREAK THROUGH TIME /MINUTES |
|----------------------------------|---------------------|---------------|--------------|-----------------------------|
| Acetone | 100 | 100% | 0.79 | 13 |
| Acetonitrile | 100 | 100% | 0.78 | 90 |
| Ammonia Solution | 100 | 10% | NA | > 480 |
| Carbon Disulfide | 0.2 | 98% | 1.26 | 0 |
| Diethylamine | 82 | 100% | 0.71 | 45 |
| Dimethylformamide | 100 | 100% | 0.95 | 80 |
| Dichloromethane | 1.3 | 100% | 1.34 | 4 |
| Ethyl Acetate | 8.7 | 100% | 0.90 | > 480 |
| Hexane | 0.014 | 100% | 0.66 | > 480 |
| Isopropanol | 100 | 100% | 0.78 | > 480 |
| Methanol | 100 | 100% | 0.79 | > 480 |
| Nitrobenzene | Not Soluble | 100% | 1.19 | 120 |
| Tetrachloroethylene | 0.015 | 100% | 1.62 | 47 |
| Tetrahydrofuran | 100 | 100% | 0.89 | 13 |
| Toluene | 0.05 | 100% | 0.87 | 22 |
| Sulfuric Acid | 100 | 50% | 1.83 | > 480 |
| Sodium Hydroxide | 50 | 50% | 2.13 | > 480 |
| ISO Liquid B (isooctane/toluene) | Not Soluble | 70%/30% | ≤1 | 51 |
| ISO Liquid C (isooctane/toluene) | Not Soluble | 50%/50% | ≤1 | 61 |
| ISO Liquid F | Not Soluble | 80%/20% | ≤1 | 190 |
| ASTM Oil#1 (JP8) | Not Soluble | Neat | ≤1 | > 480 |

Liquid B is a liquid to simulate low octane gasoline

Liquid C is a liquid to simulate high-octane gasoline

Liquid F is a liquid to simulate diesel fuel and #2 heating oil

Breakthrough detection time criteria is 1.0 µg/cm²/min

All test were performed in accordance with ASTM F739-07, Standard Test Method for Resistance of Protective Clothing Materials to Permeation by Liquids or Gases Under Conditions of Continuous Contact

The material samples tested were in pristine condition in a laboratory environment @ 23°C / 73°F

ABRASION RESISTANCE

| VULCANIZED RUBBER 1000 GM | VULCANIZED RUBBER 1500 GM | HAZMAT DRYSUIT MATERIAL |
|---------------------------|---------------------------|-------------------------|
| 810 cycles | 1095 cycles | 13,642 cycles |

Testing cycles where until breakthrough of water/chemical barrier

Results shown are the average of 4 test samples