

ASTM F925 Resistance to Chemicals - Standard Test Method

| | Surface Dulling | | Surface Attack | | Color Change | |
|---|-----------------|----------|----------------|----------|--------------|----------|
| | 5 Minutes | 24 Hours | 5 Minutes | 24 Hours | 5 Minutes | 24 Hours |
| Acids | | | | | | |
| Acetic Acid- 28% | 0 | 0 | 0 | 0 | 0 | 0 |
| Citric Acid - 10% | 0 | 0 | 0 | 0 | 0 | 0 |
| Hydrochloric Acid- 10% | 0 | 0 | 0 | 0 | 0 | 0 |
| Sodium Hydroxide- 10% | 0 | 0 | 0 | 0 | 0 | 0 |
| Sulfuric Acid- 10% | 0 | 0 | 0 | 0 | 0 | 0 |
| Bases / Alkalis | | | | | | |
| Ammonia 5% | 0 | 0 | 0 | 0 | 0 | 0 |
| Ammonium Hydroxide - 30% | 0 | 0 | 0 | 0 | 0 | 0 |
| Potassium Hydroxide - 15% | 0 | 0 | 0 | 0 | 0 | 0 |
| Sodium Carbonate - 10% | 0 | 0 | 0 | 0 | 0 | 0 |
| Alcohols | | | | | | |
| Ethyl (Denatured) Alcohol - 90% | 0 | 0 | 0 | 0 | 0 | 0 |
| Hand Sanitizer (Alcohol Based) | 0 | 0 | 0 | 0 | 0 | 0 |
| Rubbing Alcohol (70% Isopropyl) | 0 | 0 | 0 | 0 | 0 | 0 |
| Aromatics | | | | | | |
| Crude Oil | 0 | 0 | 0 | 0 | 0 | 0 |
| Fuel Oil #1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kerosene | 0 | 0 | 0 | 0 | 0 | 0 |
| Phenol | 1 | 0 | 0 | 1 | 0 | 0 |
| Mineral Oil | 0 | 0 | 0 | 0 | 0 | 0 |
| Mineral Spirits (White Spirit) | 0 | 0 | 0 | 0 | 0 | 0 |
| Turpentine | 0 | 0 | 0 | 0 | 0 | 0 |
| Unleaded Gasoline (Regular Grade) | 0 | 0 | 0 | 0 | 0 | 0 |
| Hospital Chemicals | | | | | | |
| Aniline Blue- 2.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Betadine Skin Cleanser | 0 | 0 | 0 | 0 | 0 | 0 |
| Betadine Solution - 10% | 0 | 0 | 0 | 0 | 0 | 0 |
| Blood | 0 | 0 | 0 | 0 | 0 | 0 |
| Disclosing Solution (to show plaque on teeth) | 0 | 0 | 0 | 0 | 0 | 0 |
| Formaldehyde- 37% | 0 | 0 | 0 | 0 | 0 | 0 |
| Hematoxylin | 0 | 0 | 0 | 0 | 0 | 0 |
| Iodine | 0 | 0 | 0 | 0 | 0 | 0 |
| Iodine Tincture | 0 | 0 | 1 | 0 | 0 | 1 |
| Iodine Gram Stain | 0 | 0 | 1 | 0 | 0 | 1 |
| Methylene Blue | 0 | 0 | 1 | 0 | 0 | 1 |

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|--|-----------------|----------|----------------|----------|--------------|----------|
| | 5 Minutes | 24 Hours | 5 Minutes | 24 Hours | 5 Minutes | 24 Hours |
| <u>Hospital Chemicals (Cont.)</u> | | | | | | |
| Mineral Oil (medicinal grade) | 0 | 0 | 0 | 0 | 0 | 0 |
| Potassium Permanganate- 1.5% | 0 | 0 | 0 | 0 | 0 | 0 |
| Silver Nitrate - 5% | 0 | 0 | 1 | 0 | 0 | 1 |
| Tincture of Benzoin | 0 | 0 | 0 | 0 | 0 | 0 |
| Urea Solution | 0 | 0 | 0 | 0 | 0 | 0 |
| Wright's Blood Stain | 0 | 0 | 2 | 0 | 0 | 2 |
| <u>Cleaners / Disinfectants</u> | | | | | | |
| A456 II Germicide | 0 | 0 | 0 | 0 | 0 | 0 |
| Acetone - High Solvency | 0 | 0 | 0 | 0 | 0 | 0 |
| Bleach 5% | 0 | 0 | 0 | 0 | 0 | 0 |
| Bleach 10% | 0 | 0 | 0 | 0 | 0 | 0 |
| Ecoshine Stainless Steel Polish | 0 | 0 | 0 | 0 | 0 | 0 |
| Lemon Eze Cream Cleanser | 0 | 0 | 0 | 0 | 0 | 0 |
| Lime A Way | 0 | 0 | 0 | 0 | 0 | 0 |
| QC 52 Glass Cleaner | 0 | 0 | 0 | 0 | 0 | 0 |
| QC 53 General Purpose Cleaner | 0 | 0 | 0 | 0 | 0 | 0 |
| QC 31 Neutral Cleaner | 0 | 0 | 0 | 0 | 0 | 0 |
| Quaternary Disinfectant Cleaner | 0 | 0 | 0 | 0 | 0 | 0 |
| Phenol Disinfectant Cleaner 5% | 1 | 0 | 1 | 1 | 0 | 1 |
| <u>Other Staining Agents</u> | | | | | | |
| Ball Point Pen | 0 | 0 | 0 | 0 | 0 | 0 |
| Bicarbonate | 0 | 0 | 0 | 0 | 0 | 0 |
| Blood | 0 | 0 | 0 | 0 | 0 | 0 |
| Hot Coffee | 0 | 0 | 0 | 0 | 0 | 0 |
| Cola Soda | 0 | 0 | 0 | 0 | 0 | 0 |
| Hair Dye | 0 | 0 | 0 | 0 | 0 | 0 |
| Olive Oil | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent Marker | 0 | 0 | 1 | 0 | 0 | 1 |
| Printer Toner | 0 | 0 | 0 | 0 | 0 | 0 |
| Red Kool Aid | 0 | 0 | 0 | 0 | 0 | 0 |
| Red Wine | 0 | 0 | 0 | 0 | 0 | 0 |
| Shoe Polish Paste Brown | 0 | 0 | 0 | 0 | 0 | 0 |
| Tar | 0 | 0 | 0 | 0 | 0 | 0 |
| Yellow Mustard | 0 | 0 | 0 | 0 | 0 | 0 |

Ratings Key:

0 - No Change

1 - Slight Change

2 - Moderate Change

3 - Severe Change