

March 2018

CHEMICAL RESISTANCE

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

<u>Hospital Chemicals (Cont.)</u>	<u>Surface Dulling</u>		<u>Surface Attack</u>		<u>Color Change</u>	
	<u>5 Minutes</u>	<u>24 Hours</u>	<u>5 Minutes</u>	<u>24 Hours</u>	<u>5 Minutes</u>	<u>24 Hours</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

Cleaners / Disinfectants

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

Other Staining Agents

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