

GAYNES LABS, INCORPORATED

SEFA 8-M - METAL CASEWORK

8.0 Cabinet Surface Finish Tests

Rating Scale: Level 0 - No detectable change.

Level 1 - Slight change in color or gloss.

Level 2 - Slight surface etching or severe staining.

Level 3 - Pitting, cratering, swelling, or erosion of coating. Obvious and significant deterioration.

TEST RESULTS:

<u>#</u>	<u>Chemical</u>	<u>SEFA Range</u>	<u>Gaynes Rating</u>	<u>Comments</u>
1.	Amyl Acetate	0-1	0	
2.	Ethyl Acetate	0-2	0	
3.	Acetic Acid, 98%	0-3	0	
4.	Acetone	0-1	1	
5.	Acid Dichromate, 5%	0-1	2	moderate discoloration
6.	Alcohol, Butyl	0-1	1	
7.	Alcohol, Ethyl	0-1	0	
8.	Alcohol, Methyl	0-1	0	
9.	Ammonium Hydroxide. 28%	0	0	
10.	Benzene	0-2	1	
11.	Carbon Tetrachloride	0-1	0	
12.	Chloroform	0-2	1	slight discoloration
13.	Chromic Acid 60%	0-2	1	moderate loss of gloss
14.	Cresol	0-2	1	
15.	Dichloroacetic Acid	0-3	3	removed coating
16.	Dimethylformamide	0-2	0	
17.	Dioxane	0-2	1	
18.	Ethyl Ether	0-1	1	
19.	Formaldehyde, 37%	0-1	0	
20.	Formic Acid, 90%	0-3	3	blistering
21.	Furfural	0-3	3	removed coating and discoloration
22.	Gasoline	0	1	
23.	Hydrofluoric Acid, 37%	0-2	1	
24.	Hydrofluoric Acid, 48%	0-3	2	severe staining
25.	Hydrogen Peroxide, 30%	0-1	0	
26.	Tincture of Iodine	0-2	0	
27.	Methyl Ethyl Ketone	0-2	1	
28.	Methylene Chloride	0-2	1	
29.	Mono Chlorobenzene	0-2	1	
30.	Naphthalene	0-1	0	
31.	Nitric Acid, 20%	0-1	0	
32.	Nitric Acid, 30%	0-1	0	

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<u>#</u>	<u>Chemical</u>	<u>SEFA Range</u>	<u>Gaynes Rating</u>	<u>Comments</u>
33.	Nitric Acid, 70%	0-3	1	
34.	Phenol, 90%	0-2	2	severe staining
35.	Phosphoric Acid, 85%	0-1	0	
36.	Silver Nitrate Saturated	0	0	
37.	Sodium Hydroxide 10%	0	0	
38.	Sodium Hydroxide 20%	0	0	
39.	Sodium Hydroxide 40%	0-1	0	
40.	Sodium Hydroxide Flake	0	0	
41.	Sodium Sulfide Saturated	0	0	
42.	Sulfuric Acid, 33%	0	0	
43.	Sulfuric Acid, 77%	0	0	
44.	Sulfuric Acid, 96%	2-3	0	
45.	Sulfuric Acid 77% and Nitric Acid 70% equal parts	1-3	0	
46.	Toluene	0-1	0	
47.	Trichloroethylene	0-1	1	
48.	Xylene	0-1	1	
49.	Zinc Chloride, Saturated	0	0	

8.1.3 Acceptance Level - "The Range of results is provided to establish the acceptable range for Laboratory Grade Finish. Results will vary from manufacturer to manufacturer due to differences in finish formulations. Laboratory Grade finishes shall result in no more than four (4) Level 3 conditions. Individual test results for the specified 49 reagents will be verified with the established third party, independent SEFA 8 test submittal form. Suitability for a given application is dependent upon the chemicals used in a given laboratory."