

FRIDURIT® TECHNICAL CERAMICS

CHEMICAL RESISTANCE

	Reagent	Evaluation		Reagent	Evaluation
01	Acetic acid (99%)	0	44	Methylalcohol	0
02	Acetic anhydride	0	45	Methylene blue	0
03	Acetone	0	46	Methylethylketone	0
04	Acetonitrile	0	47	Methylisobutylketone	0
05	Acridine orange	0	48	Methyl violet 2B	0
06	Alizarin complexone dihydrate	0	49	Mono Chlorbenzene	0
07	Ammonium hydroxide (28%)	0	50	Naphtaline	0
08	Amylacetat	0	51	n-Butyl acetate	0
09	Aniline blue, water soluble	0	52	Nitric acid (10%)	0
10	Benzene	0	53	Nitric acid (20%)	0
11	Butyl alcohol	0	54	Nitric acid (30%)	0
12	Carbol fuchsin	0	55	Nitric acid (65%)	0
13	Carbon tetrachloride	0	56	Nitric acid (70%)	0
14	Carmine	0	57	Nitric acid (65%) : hydrochloric acid (37%)	0
15	Chloroform	0	58	n-Hexane	0
16	Chromium(VI)oxide (60%)	0	59	Perchloric acid (60%)	0
17	Congo red	0	60	Phenol	0
18	Copper sulphate (10%)	0	61	Phosphoric acid (85%)	0
19	Cresol	0	62	Potassium iodite (10%)	0
20	Crystal violet (gentian)	0	63	Potassium permanganate (10%)	0
21	Dichloroacetic acid	0	64	Safranin O	0
22	Dichloromethane	0	65	Silver nitrate (1%)	0
23	Dioxane	0	66	Sodium chloride (10%)	0
24	Eosin B	0	67	Sodium hydroxide (10%)	0
25	Ethyl acetate	0	68	Sodium hydroxide (20%)	0
26	Ethylalcohol	0	69	Sodium hydroxide (40%)	0
27	Ethylene glycol	0	70	Sodium hydroxide (flakes)	0
28	Ethyl ether	0	71	Sodium hypochlorite (13%)	0
29	Ferric(III)chloride (10%)	0	72	Sudan III	0
30	Formaldehyde (37%)	0	73	Sulphuric acid (10%)	0
31	Formic acid (99%)	0	74	Sulphuric acid (25%)	0
32	Fuchsin (basic)	0	75	Sulphuric acid (33%)	0
33	Furfural	0	76	Sulphuric acid (77%)	0
34	Gasoline	0	77	Sulphuric acid (85%)	0
35	Giemsa stain	0	78	Sulphuric acid (96-98%)	0
36	Hydrochloric acid (10%)	0	79	50% Sulphuric acid (77%): 50% Nitric acid (70%)	0
37	Hydrochloric acid (37%)	0	80	50% Sulphuric acid (85%): 50% Nitric acid (70%)	0
38	Hydrofluoric acid	3.0	81	Tetrahydrofurane	0
39	Hydrogen peroxide	0	82	Toluene	0
40	Iodine solution (0.1 N)	0	83	Trichlorethylene	0
41	Iodine (crystals)	0	84	Xylene	0
42	Iodine (tincture)	0	85	Zinc chloride (saturated)	0
43	Malachite green oxalate	0			

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TEST PROCEDURE

The chemical spot test was made by applying 5 drops of each reagent to the surface of each panel. The acids, bases, salts, specific chemicals and biological stains were covered with a watch glass concave side down to confine the reagent. The spot test of the solvents was tested as follows: A cotton wool ball was saturated with the solvent and placed on the surface. The cotton wool ball was covered by an inverted wide mouth bottle to retard evaporation. At the end of the 24-hour test period the chemicals have been removed by water and customary detergents, dried and evaluated.

EVALUATION

- 0** No change in colour and/or gloss
- 0.5** Slight change in colour and/or gloss but no change in the surface
- 1.0** Clear change in colour and/or gloss but no change in the surface
- 2.0** Clear change in colour and/or gloss and slight etching
- 3.0** Clear change in colour and/or gloss and etching and/or corrosion of the surface