

Chemical Reagent	No Effect	Excellent	Good	Fair	Failure
ACIDS					
Acetic Acid 99%	■				
Acid Dichromate 5%	■				
Chromic Acid 60%	■				
Formic Acid 90%	■				
Hydrochloric Acid 10%	■				
Hydrochloric Acid 37%	■				
Hydrofluoric Acid 48%					■
Nitric Acid 20%	■				
Nitric Acid 30%		■			
Nitric Acid 65%			■		
Nitric Acid 70%			■		
Nitric Acid 65% : Hydrochloric Acid 37% (1:3)	■				
Perchloric Acid 60%	■				
Phosphoric Acid 85%	■				
Sulphuric Acid 25%	■				
Sulphuric Acid 33%	■				
Sulphuric Acid 77%	■				
Sulphuric Acid 85%	■				
Sulphuric Acid 98%		■			
Sulphuric Acid 77% : Nitric Acid 70% (1:1)			■		
Sulphuric Acid 85% : Nitric Acid 70% (1:1)			■		
BASES					
Ammonium Hydroxide 28%	■				
Sodium Hydroxide 10%	■				
Sodium Hydroxide 20%	■				
Sodium Hydroxide 40%	■				
Sodium Hydroxide Flake	■				
SALTS					
Copper Sulphate 10%	■				
Ferric(III)Chloride 10%	■				
Potassium Iodite 10%	■				
Potassium Permanganate 10%	■				
Saturated Zinc Chloride	■				
Silver Nitrate 1%	■				
Sodium Chloride 10%	■				
Sodium Hyperchlorite 13%	■				
HALOGENS					
Iodine (Crystals)		■			
Iodine Solution (0.1 N)		■			
Tincture of Iodine	■				
ORGANIC CHEMICALS					
Cresol	■				
Dimethylformamide	■				
Formaldehyde 37%	■				
Furfural		■			

Test Procedure: The test was conducted by applying 5 drops of each reagent on the surface, covered with a watch glass. All chemicals were tested at room temperature for a period of 24 hours, rinsed off with water and evaluated.

Test Results:

No Effect: No detectable stain, loss of gloss or change in work surface material.

Excellent: Slight stain or loss of gloss, but no change to the function, smoothness or the life of the work surface material.

Good: A clearly discernible stain or loss of gloss, but no change to the function, smoothness or life of the work surface material.

Fair: Unacceptable staining or discernible deterioration or etching of work surface material.

Failure: Severe stain or moderate deterioration, pitting, cratering or etching of the work surface material.