

# CHEMICAL RESISTANCE CHART

Reagent	ABS	Acetal	HDPE	LDPE	PC	PP	Santo-prene	Sili-cone	Reagent	ABS	Acetal	HDPE	LDPE	PC	PP	Santo-prene	Sili-cone
Sodium Bisulfite	A	C	B	A <sup>2</sup>	A <sup>1</sup>	A	—	A	Sulfuric Acid (10-75%)	B	D	A	A <sup>1</sup>	B <sup>1</sup>	A <sup>1</sup>	B	D
Sodium Borate (Borax)	A	—	B	A <sup>2</sup>	A <sup>1</sup>	A <sup>2</sup>	—	A	Sulfuric Acid (75-100%)	—	—	B	C	D	C <sup>1</sup>	D	D
Sodium Bromide	B	A	—	A <sup>2</sup>	—	—	—	—	Sulfuric Acid (cold concentrated)	—	—	B	D	—	A <sup>2</sup>	D	D
Sodium Carbonate	B	A <sup>1</sup>	A	B <sup>2</sup>	A <sup>2</sup>	A	—	A	Sulfuric Acid (hot concentrated)	—	—	B	D	D	D	D	D
Sodium Chlorate	A	A	—	B <sup>2</sup>	A <sup>1</sup>	A	—	C	Sulfurous Acid	—	C	B	B <sup>2</sup>	—	A	—	D
Sodium Chloride	A	A <sup>1</sup>	A	A <sup>2</sup>	A <sup>2</sup>	A	A	A	Sulfuryl Chloride	—	A	—	—	—	—	—	—
Sodium Chromate	—	D	—	—	A <sup>2</sup>	—	—	—	Tallow	—	A	A	C	—	A <sup>2</sup>	—	—
Sodium Cyanide	A	A	B	A <sup>2</sup>	—	A	—	A	Tannic Acid	—	B	A	B <sup>2</sup>	C	A	A	B
Sodium Ferrocyanide	—	A	—	A	—	A	—	—	Tanning Liquors	—	B	—	A <sup>1</sup>	—	A <sup>1</sup>	—	B
Sodium Fluoride	A	—	—	A <sup>2</sup>	—	A	—	—	Tartaric Acid	—	B	A	A <sup>1</sup>	—	A	A	A
Sodium Hydrosulfite	—	—	—	—	—	—	—	C	Tetrachloroethane	—	A	—	—	—	C	D	D
Sodium Hydroxide (20%)	B	A	C	B	A <sup>2</sup>	A	A	A <sup>2</sup>	Tetrachloroethylene	—	A	C	B	D	D	—	D
Sodium Hydroxide (50%)	A	A	C	B	D	A	A	A <sup>1</sup>	Tetrahydrofuran	—	A	C	C <sup>1</sup>	D	C <sup>2</sup>	D	D
Sodium Hydroxide (80%)	A	D	C	—	D	A	C	A <sup>1</sup>	Tin Salts	—	—	—	—	—	A	—	B
Sodium Hypochlorite (100%)	—	D	C	B <sup>2</sup>	—	B	D	B	Toluene (Toluol)	D	C <sup>1</sup>	D	C <sup>1</sup>	D	C <sup>1</sup>	D	D
Sodium Hypochlorite (<20%)	B	D	A	A	C	A	A	B	Tomato Juice	B	B	A	A <sup>1</sup>	A <sup>1</sup>	A	—	—
Sodium Hyposulfate	—	—	—	—	—	—	—	—	Trichloroacetic Acid	—	—	C	A	D	A	—	D
Sodium Metaphosphate	—	B	B	A <sup>1</sup>	—	A <sup>1</sup>	—	A	Trichloroethane	—	A	D	—	D	C	D	D
Sodium Metasilicate	—	D	—	—	—	A	—	—	Trichloroethylene	D	D	D	D	—	C <sup>1</sup>	D	D
Sodium Nitrate	—	A	B	A <sup>2</sup>	—	A	—	D	Trichloropropene	D	A	—	—	—	—	—	—
Sodium Perborate	—	B	—	A <sup>1</sup>	—	A	—	B	Tricresylphosphate	B	C	—	B <sup>1</sup>	—	A <sup>1</sup>	—	C
Sodium Peroxide	—	D	B	A	A <sup>2</sup>	B	—	D	Triethylamine	—	D	—	—	—	D	—	—
Sodium Polyphosphate	—	B	B	A	—	A	—	D	Trisodium Phosphate	B <sup>1</sup>	A	A	A	—	A	—	A
Sodium Silicate	—	C	A	A <sup>2</sup>	—	A	—	A	Turpentine	D	A <sup>2</sup>	B	D	D	D	D	D
Sodium Sulfate	—	B	—	A <sup>2</sup>	A <sup>2</sup>	A	—	A	Urea	B	A	A	A	D	A	—	B
Sodium Sulfide	—	B	B	A <sup>2</sup>	D	A	—	A	Uric Acid	—	—	—	B	—	—	A	—
Sodium Sulfite	—	—	B	B <sup>1</sup>	—	A <sup>2</sup>	—	A	Urine	—	A	A	A <sup>2</sup>	—	A	—	—
Sodium Tetraborate	—	B	B	A <sup>2</sup>	—	—	—	A	Varnish	—	A	B	A	—	A	—	D
Sodium Thiosulfate (hypo)	—	C <sup>1</sup>	—	A <sup>1</sup>	D	A <sup>2</sup>	—	A	Vegetable Juice	B	A	—	—	—	—	—	B
Sorghum	—	A	—	—	—	—	—	—	Vinegar	A	B	A	A	A <sup>2</sup>	A	—	A
Soy Sauce	—	A	—	—	—	—	—	—	Vinyl Acetate	—	—	D	A	—	B <sup>1</sup>	—	D
Stannic Chloride	—	C	—	A <sup>2</sup>	A <sup>1</sup>	A	—	B	Vinyl Chloride	D	—	—	—	—	—	—	—
Stannic Fluoborate	—	C	—	—	—	—	—	—	Water, Deionized	—	—	A	—	—	A <sup>2</sup>	A	—
Stannous Chloride	—	—	—	B <sup>2</sup>	—	A	—	B	Water, Acid, Mine	B	A <sup>1</sup>	A	A <sup>2</sup>	B <sup>2</sup>	A	A	B
Starch	—	A	—	B	—	A <sup>2</sup>	—	—	Water, Distilled	B	B	A	A <sup>2</sup>	A <sup>2</sup>	A	A	C
Stearic Acid	—	A	A	B <sup>1</sup>	A <sup>1</sup>	A <sup>2</sup>	A	B	Water, Fresh	A	A <sup>2</sup>	A	A <sup>2</sup>	A <sup>2</sup>	A	A	B
Stoddard Solvent	B	A	—	C <sup>2</sup>	A <sup>2</sup>	C	D	D	Water, Salt	—	A	A	A <sup>2</sup>	A <sup>2</sup>	A	A	B
Styrene	—	A	—	—	D	—	—	D	Weed Killers	—	A	—	—	—	—	—	A
Sugar (Liquids)	B	A	—	—	—	A	—	A	Whey	—	A	—	—	—	—	—	—
Sulfate (Liquors)	—	D	A	A <sup>2</sup>	—	A	—	B	Whiskey and Wines	C	A	B	C	A <sup>1</sup>	A	—	A
Sulfur Chloride	—	D	—	C <sup>1</sup>	—	C <sup>1</sup>	—	C	White Liquors (Pulp Mill)	—	D	—	A <sup>2</sup>	—	A <sup>1</sup>	—	A
Sulfur Dioxide	D	B	D	B <sup>1</sup>	—	A <sup>1</sup>	—	B	White Water (Paper Mill)	—	B	—	—	—	A	—	—
Sulfur Dioxide (dry)	—	B	A	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	—	B	Xylene	D	A	D	B	D	B	D	D
Sulfur Hexafluoride	—	—	—	B	—	—	—	B	Zinc Chloride	A	C	A	A <sup>1</sup>	A <sup>2</sup>	A	B	B
Sulfur Trioxide	—	—	—	—	—	C	—	B	Zinc Hydrosulfite	A	C	—	—	—	—	—	—
Sulfur Trioxide (dry)	—	D	—	C <sup>1</sup>	—	D	—	B	Zinc Sulfate	A	C	A	A <sup>2</sup>	A <sup>2</sup>	A	—	A
Sulfuric Acid (<10%)	B	D	A	A <sup>1</sup>	A <sup>1</sup>	A <sup>2</sup>	A	C									

**A-** No effect  
**B-** Minor effect  
**C-** Moderate effect

**D-** Severe effect;  
not recommended  
**—** No data available

**Explanation of footnotes:**  
**1-** Satisfactory to 72 °F (22 °C)  
**2-** Satisfactory to 120 °F (48 °C)  
**3-** Satisfactory to 90 °F (32 °C)  
**4-** Satisfactory to 200 °F (93 °C)