

Material Selection

| AGENT | Aluminum | Brass | Bronze | Hastelloy, C-276 | Malleable Iron Carbon Steel | Monel | Stainless Steel, 304 | Stainless Steel, 316 | Nylon | Polypropylene | Seal Material |
|---------------------------|----------|-------|--------|------------------|-----------------------------|-------|----------------------|----------------------|-------|---------------|---------------|
| Sodium | | | | | | | | | | | |
| Sodium Acetate | 1 | 2 | 2 | - | X | 2 | 2 | 2 | A | A | TEN |
| Sodium Bicarbonate (20%) | 2 | 2 | 2 | 1 | 3 | 1 | 1 | 1 | A | A | TEVNB |
| Sodium Bisulfate | X | - | 2 | 2 | 2 | - | - | - | A | A | TEVNB |
| Sodium Bisulfite | X | 2 | X | 2 | X | - | - | - | A | A | TEVNB |
| Sodium Borate | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | A | A | TEVNB |
| Sodium Perborate (10%) | 2 | X | 2 | 2 | 2 | 2 | 2 | 2 | X | A | TEVNB |
| Sodium Carbonate | X | 2 | - | 2 | 2 | 1 | - | 2 | A | A | TEVNB |
| Sodium Chlorate (50%) | 2 | 2 | 2 | 1 | X | 1 | 2 | 2 | X | A | TEVNB |
| Sodium Cyanide | X | X | X | 2 | 2 | X | - | - | A | A | TEVNB |
| Sodium Dichromate | 2 | X | X | 1 | 2 | - | 2 | 2 | X | A | TE |
| Sodium Hydroxide (70%) | X | X | X | 1 | 3 | 1 | 2 | 2 | X | A | TENB |
| Sodium Hydroxide (50%) | X | X | 3 | 1 | 3 | 1 | 1 | - | X | A | TENB |
| Sodium Hydroxide (30%) | X | 2 | 3 | 2 | 2 | 1 | 1 | 1 | X | A | TENB |
| Sodium Chloride (30%) | X | 2 | 2 | 2 | 2 | 1 | - | - | X | A | TEVNB |
| Sodium Hypochlorite | X | X | X | - | X | X | - | - | X | A | TEV |
| Sodium Metaphosphate | X | X | 2 | - | X | 2 | 2 | 2 | X | X | TEVNB |
| Sodium Nitrate (40%) | 1 | 2 | - | - | 2 | 2 | 1 | 1 | A | A | TENB |
| Sodium Perborate (10%) | 2 | X | 2 | 2 | 2 | 2 | 2 | 2 | X | A | TEVNB |
| Sodium Peroxide (10%) | 2 | X | X | 2 | 2 | 2 | 2 | 2 | X | A | TEVNB |
| Sodium Silicate | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | A | A | TEVNB |
| Sodium Sulfate | - | 2 | 2 | 2 | 2 | - | - | 1 | A | A | TEVNB |
| Sodium Sulfide (50%) | X | X | X | 2 | 2 | 2 | - | 2 | X | A | TEVNB |
| Sodium Thiosulphate | 2 | X | X | 2 | X | 2 | 2 | 2 | A | A | TEVNB |
| Stannic Chloride | X | X | X | - | X | X | X | X | X | A | TEVNB |
| Stannous Chloride | X | X | X | 2 | X | - | X | - | X | X | TEVNB |
| Steam | - | - | - | - | - | - | - | - | X | - | - |
| Stearic Acid | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 1 | A | A | TVNB |
| Stoddard's Solvent | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | X | A | TVB |
| Sugar Liquors (Cane) | 1 | 2 | 1 | - | 2 | 2 | 2 | 2 | A | A | TEVNB |
| Sugar Liquors (Beet) | 1 | 2 | 1 | - | 2 | 1 | 1 | 1 | A | A | TEVNB |
| Sulfate Liquors | 2 | X | X | 2 | 3 | 2 | - | 2 | X | A | TVNB |
| Sulfite Liquors | X | X | - | 1 | X | X | 2 | 2 | X | X | TVNB |
| Sulfur Chloride | X | - | X | 2 | X | X | - | - | X | X | TV |
| Sulfur Dioxide (Dry) | 2 | 2 | 2 | 2 | 1 | 2 | - | 2 | X | A | TE |
| Sulfur Trioxide | 2 | 2 | X | 2 | 2 | 2 | - | 2 | X | X | TEV |
| Sulfuric Acid (TO 10%) | X | 2 | X | 1 | X | X | X | X | X | A | TEVNB |
| Sulfuric Acid (100%) | X | X | X | 1 | 2 | X | - | - | X | X | TV |
| Sulfurous Acid | 2 | 2 | X | - | X | X | X | - | X | A | TV |
| Tannic Acid | X | - | X | - | X | 2 | 2 | 2 | X | A | TEVNB |
| Tanning Liquors | 1 | - | 2 | 1 | - | - | 1 | 1 | X | A | TVNB |
| Tartaric Acid | - | - | 2 | 2 | - | - | 1 | 1 | A | A | TVNB |
| Titanium Tetrachloride | X | X | X | 2 | 2 | 2 | - | 2 | X | X | TV |
| Toluene | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | A | X | TVB |
| Tetrahydrofuran | X | - | 2 | 1 | 1 | - | 1 | 2 | A | X | T |
| Tomato Juice | 2 | - | 3 | 2 | 3 | 2 | 2 | 2 | X | A | TEVNB |
| Trichloroethylene | 1 | - | 2 | 1 | 2 | - | - | - | A | X | TV |
| Triethanolamine | 2 | X | 2 | 2 | 2 | 2 | 2 | 2 | A | X | TEVN |
| Triethylamine | - | - | - | - | - | 2 | 2 | 2 | A | X | TVB |
| Trisodium Phosphate (10%) | X | 2 | - | 1 | 2 | 2 | 1 | 1 | A | A | TVNB |
| Turpentine | 2 | X | 2 | 2 | 2 | 1 | 1 | 1 | X | X | TVB |
| Urea (50%) | 2 | - | 2 | - | 2 | 2 | 2 | 2 | A | A | TEVNB |
| Urine | - | - | - | - | 2 | - | 1 | 1 | X | A | TEVNB |
| Vinegar | X | X | 2 | 2 | 2 | 2 | 2 | 2 | X | A | TEVN |
| Water Acid (Mine) | X | X | X | 1 | X | - | - | - | X | A | TEVNB |
| Water (Distilled) | X | 2 | 2 | 1 | X | X | 2 | 2 | A | A | TEVNB |
| Water (Sea) | 2 | 2 | 2 | 1 | X | 2 | 2 | 2 | A | A | TEVNB |
| Whiskey | X | 2 | 2 | 1 | 2 | 2 | 1 | 1 | X | A | TEVNB |
| White Liquor (Pulp) | 2 | - | X | 2 | X | X | 2 | 2 | X | A | TEVNB |
| Wine | X | 2 | 2 | 1 | X | 2 | 1 | 1 | X | A | TEVNB |
| Xylene | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | A | X | TV |
| Zinc | | | | | | | | | | | |
| Zinc Chloride | X | X | X | 2 | X | - | X | 2 | A | A | TEVNB |
| Zinc Nitrate | - | - | - | - | - | - | 2 | 2 | X | A | TEVNB |
| Zinc Sulfate (50%) | X | 2 | 2 | 2 | X | 2 | 1 | 1 | X | A | TEVNB |

Ratings given are based at 70°F (21°C).

