





# FLUID COMPATIBILITY CHART

## for metal threaded fittings sealed with Loctite® Sealants

### LIQUIDS, SOLUTIONS & SUSPENSIONS

### GASES

**LEGEND:**  
 ● All Loctite® Anaerobic Sealants are Compatible Including #242®, 243, 542, 545, 565, 567, 569, 571, 572, 577, 580, 592  
 † Use Loctite® #270, 271™, 277, 554  
 ■ Not Recommended  
 □ <10% (same as ●)  
 >10% (same as †)  
 ★ <5% (same as ●)  
 >5% (same as †)  
 ◆ Use Loctite® #242®, 243, 290, 565

Plating Sol. as follows:

- Brass Cyanide.....●
- Bronze-Cyanide.....●
- Chromium & Cadmium Cyanide.....●
- Cobalt Acid.....●
- Copper Acid.....●
- Copper Alk.....●
- Gold Cyanide.....●
- Iron-Acid.....●
- Lead-Fluoro.....●
- Nickel Bright.....●
- Platinum.....●
- Silver-Cyanide.....●
- Tin-Acid.....●
- Tin Alk. Barrel.....●
- Zinc Acid.....●
- Zinc Alk. Cyanide.....●
- Polyacrylonitrile Slurry.....●
- Polypentek.....●
- Polysulfide Liquor.....●
- Polyvinyl Acetate Slurry.....●
- Polyvinyl Chloride.....●
- Porcelain Frit.....●
- Potash.....□
- Potassium Acetate.....●
- Potassium Alum. Sulfate.....●
- Potassium Bromide.....●
- Potassium Carbonate.....●
- Potassium Chlorate.....●
- Potassium Chloride Sol.....●
- Potassium Chromate.....●
- Potassium Cyanide Sol.....●
- Potassium Dichromate.....●
- Potassium Ferricyanide.....●
- Potassium Hydroxide.....■
- Potassium Iodide.....●
- Potassium Nitrate.....●
- Potassium Perchlorate.....●
- Potassium Permanganate.....●
- Potassium Persulfate.....●
- Potassium Phosphate.....●
- Potassium Silicate.....●
- Potassium Sulfate.....●
- Potassium Xanthate.....●
- Press Board Waste.....●
- Propionic Acid.....●
- Propyl Alcohol.....●
- Propyl Bromide.....●
- Propylene Glycol.....●
- Pumice.....●
- Pyranol.....●
- Pyridine.....●
- Pyrogalllic Acid.....●
- Pyrogen Free Water.....●
- Pyrole.....●
- Pyromellitic Acid.....●
- Quebracho Tannin.....●
- Rag Stock Bleached.....●
- Rare Earth Salts.....●
- Rayon Acid Water.....●
- Rayon Spin Bath.....●
- Rayon Spin Bath spent.....●
- Resorcinol.....●
- River Water.....●
- Road Oil.....●
- Roccal.....●
- Rosin-Wood.....●
- Rosin in Alcohol.....●
- Rosin Size.....●
- Rubber Latex.....●
- Safrol.....●
- Salt Alkaline.....●
- Salt Electrolytic.....●
- Salt Refrg.....●
- Sand-Air Blown Slurry.....●
- Sand-Air Phosphatic.....●
- Sea Coal.....●
- Sea Water.....●
- Selenium Chloride.....●
- Sequestrene.....●
- Sewage.....●
- Shellac.....●
- Shower Water.....●
- Silica Gel.....●
- Silica Ground.....●
- Silicone Tetrachloride.....●
- Silicone Fluids.....●
- Silver Cyanide.....●
- Silver Iodide-Aqu.....●
- Silver Nitrate.....●
- Size Emulsion.....●
- Skelly Solve E, L.....●
- Slate to 400 Mesh.....●
- Soap Lye.....■
- Soap Solutions (Stearates).....●
- Soap Stone Air Blown.....●
- Soda Pulp.....●
- Sodium Acetate.....●
- Sodium Acid Fluoride.....●
- Sodium Aluminate.....●
- Sodium Arsenate.....●
- Sodium Benzene Sulfonate.....●
- Sodium Bichromate.....●
- Sodium Bisulfite.....●
- Sodium Bromide.....●
- Sodium Carbonate.....●
- Sodium Chlorate.....●
- Sodium Chlorite.....●
- Sodium Cyanide.....●
- Sodium Ferricyanide.....●
- Sodium Formate.....●
- Sodium Glutamate.....●
- Sodium Hydrogen Sulfate.....●
- Sodium Hydrosulfite.....●
- Sodium Hydroxide.....●
- Sodium Hydrochloride.....●
- Sodium Hydroxide.....■
- Sodium Hydro. 20% cold.....●
- Sodium Hydro. 20% hot.....†
- Sodium Hydro. 50% cold.....†
- Sodium Hydro. 50% hot.....■
- Sodium Hydro. 70% cold.....†
- Sodium Hydro. 70% hot.....■
- Sodium Hypochlorite.....●
- Sodium Lignosulfonate.....●
- Sodium Metasilicate.....●
- Sodium Molten.....●
- Sodium Nitrate.....●
- Sodium Nitrite-Nitrate.....●
- Sodium Perborate.....●
- Sodium Peroxide.....■
- Sodium Persulfate.....●
- Sodium Phosphate-Mono.....●
- Sodium Phosphate-Tri.....●
- Sodium Potassium Chloride.....●
- Sodium Salicylate.....●
- Sodium Sesquicarbonate.....●
- Sodium Silicate.....●
- Sodium Silcofluoride.....●
- Sodium Stannate.....●
- Sodium Sulfate.....●
- Sodium Sulfide.....●
- Sodium Sulfite.....●
- Sodium Sulfhydrate.....●
- Sodium Thiocyanate.....●
- Sodium Thiosulfate.....●
- Sodium Tungstate.....●
- Sodium Xanthate.....●
- Solox-Denat. Ethanol.....●
- Soluble Oil.....●
- Solvent Naphthas.....●
- Sorbic Acid.....●
- Sour Gasoline.....●
- Soybean Sludge-Acid.....●
- Spensol Solution.....●
- Stannic Chloride.....●
- Starch.....●
- Starch Base.....●
- Stearic Acid.....●
- Steep Water.....●
- Sterilization Steam.....●
- Stillage Distillers.....●
- Stoddard Solvent.....●
- Styrene.....●
- Styrene Butadiene Latex.....●
- Sulfamic Acid.....●
- Sulfan-Sulfuric Anhydride.....●
- Sulfathiazole.....●
- Sulfite Liquor.....●
- Sulfite Stock.....●
- Sulfonated Oils.....●
- Sulfones.....●
- Sulfonic Acids.....●
- Sulfonyl Chloride.....●
- Sulfur Slurry.....●
- Sulfur Solution.....●
- in Carbon Disulfide.....●
- Sulphuric Acid 0-7%.....†
- Sulphuric Acid 7-40%.....†
- Sulphuric Acid 40-75%.....†
- Sulphuric Acid 75-95%.....■
- Sulphuric Acid 95-100%.....■
- Sulphurous Acid.....†
- Sulfuryl Chloride.....●
- Surfactants.....●
- Synthetic Latex.....●
- Taconite - Fines.....●
- Talc - Slurry.....●
- Tankage - Slurry.....●
- Tannic Acid (cold).....†
- Tamin.....●
- Tar & Tar Oil.....●
- Tartaric Acid.....●
- Television Chemicals.....●
- Tergitol \$.....●
- Terpineol.....●
- Tetraethyl Lead.....●
- Tetrahydrofuran.....●
- Tetranitromethane.....●
- Textile Dyeing.....●
- Textile Finishing Oil.....●
- Textile Printing Oil.....●
- Thiocyanic Acid.....●
- Thioglycollic Acid.....●
- Thionyl Chloride.....●
- Thiophosphoryl Chloride.....●
- Thiourea.....●
- Thorium Nitrate.....●
- Thymol.....●
- Tin Tetrachloride.....●
- Tinning Sol. DuPont.....●
- Titania Paper Coating.....●
- Titanium Oxide Slurry.....●
- Titanium Oxy Sulfate.....●
- Titanium Sulfate.....●
- Titanium Tetrachloride.....●
- Toluol.....●
- Toluene.....●
- p-Toluene Sulfonic Acid.....†
- Transil Oil.....●
- Trichloroacetic Acid.....●
- Trichlorethane 1,1,1.....●
- Trichlorethylene.....●
- Trichlorethylene-Dry.....●
- Tricresyl Phosphate.....●
- Triethanolamine.....●
- Triethylene Glycol.....●
- Trioxane.....●
- Tungstic Acid.....●
- Turpentine.....●
- UCON \$ Lube.....●
- Udlylite Bath-Nickel.....●
- Undecylenic Acid.....●
- Unichrome Sol. Alk.....●
- Uranium Salts.....●
- Ureanyl Nitrate.....●
- Ureanyl Sulfate.....●
- Urea Ammonia Liquor.....●
- Vacuum to 100 Micron.....●
- Vacuum below 100 Micr.....●
- Vacuum Oil.....●
- Vanadium Pentoxide.....●
- Slurry.....●
- Varnish.....●
- Varsol-Naphtha Solv.....●
- Versene \$.....●
- Vinyl Acetate Dry or Chloride Monomer.....●
- Vinyl Chloride Latex Emul.....●
- Vinyl Resin Slurry.....●
- Viscose.....●
- Vortex-Hydroclone.....●
- Water-Acid - Below pH7.....●
- Water pH7 to 8.....●
- Water Alkaline - Over pH8.....●
- Water Mine Water.....●
- Water Potable.....◆
- Water River.....●
- Water Sandy.....●
- Water "White" - low pH.....●
- Water "White" - high pH.....●
- Wax.....●
- Wax Chlorinated.....●
- Wax Emulsions.....●
- Weed Killer Dibromide.....●
- Weisberg Sulfate Plating.....●
- Wood ground pulp.....●
- Wort Lines.....●
- X-Ray Developing Bath.....●
- Xylene.....●
- Zelan.....●
- Zeolite Water.....●
- Zinc Acetate.....●
- Zinc Bromide.....●
- Zinc Chloride.....●
- Zinc Cyanide-Alk.....●
- Zinc Fines Slurry.....●
- Zinc Flux Paste.....●
- Zinc Galvanizing.....●
- Zinc Hydrosulfite.....●
- Zinc Oxide in Water.....●
- Zinc Oxide in Oil.....●
- Zinc Sulfate.....●
- Zincolate.....●
- Zirconyl Nitrate.....●
- Zirconyl Sulfate.....●

- Acetylene.....●
- Acid & Alkali Vapours.....●
- Air.....●
- Amine.....●
- Ammonia.....●
- Butane.....●
- Butadiene Gas/Liquid.....●
- Butylene Gas/Liquid.....●
- By-Product Gas (Dry).....●
- Carbon Dioxide.....●
- Carbon Disulfide.....●
- Carbon Monoxide.....●
- Chloride Dry.....●
- Chlorine Dry.....■
- Chlorine Wet.....■
- Coke-oven Gas-cold.....●
- Coke-oven Gas-hot.....†
- Cyanogen Chloride.....●
- Cyanogen Gas.....●
- Ethane.....●
- Ether-see Diethyl Ether.....●
- Ethylene.....●
- Ethylene Oxide.....●
- Freon \$ (11-12-21-22).....†
- Furnace Gas hot.....†
- Furnace Gas cold.....●
- Gas drip oil.....●
- Gas flue.....●
- Gas manufacturing.....●
- Gas natural.....●
- Helium.....●
- Hydrogen Gas-cold.....●
- Hydrogen Chloride.....●
- Hydrogen Cyanide.....●
- Hydrogen Sulfide wet & dry.....●
- Isobutane.....●
- Methane.....●
- Methyl Chloride.....●
- Natural gas dry.....●
- Nitrogen gas.....●
- Nitrous Oxide.....●
- Oil-Solvent Vapor.....●
- Oxygen.....■
- Ozone.....■
- Producer Gas 50 PSI.....●
- Propane.....●
- Propylene.....●
- Steam High Pressure (≤ 70 psi).....■
- Steam Low Pressure (≤ 70 psi).....●
- Sulfur Dioxide.....●
- Sulfur Dioxide dry.....●
- Sulfur Trioxide Gas.....■
- Sulfuric Acid Vapor.....●

**NOTE:** 1. The above information does not constitute a recommendation of sealant use. It is intended only as a guide for consideration by the purchaser with the expectation of favorable confirming test results. It is impossible to test sealant reaction with the multitude of chemicals in existence, therefore, compatibility has been estimated based on a wide variety of customer experience.  
 2. With the stringent action of such chemicals as Freon, strong cold acids and caustics, thorough evaluation is suggested. Sealing of hot corrosive chemicals is not recommended.  
 3. Contact Loctite Corporation for use with chemicals not covered by this information.

§Listing(s) may be Brand Name(s) or Trademarks for chemicals of Corporations other than Loctite.

Loctite product numbers in red are worldwide or application-specific products.

(This is a list of chemical stability only. It does not constitute approval for use in the processing of foods, drugs, cosmetics, pharmaceuticals, and ingestible chemicals). Loctite® sealants are not recommended for use in pure oxygen or chlorine environments or in conjunction with strong oxidizing agents, an explosive reaction can result.

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof.  
 In light of the foregoing, LOCTITE CORPORATION SPECIFICALLY DISCLAIMS ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARISING FROM SALE OR USE OF LOCTITE CORPORATION'S PRODUCTS. LOCTITE

LOCTITE CORPORATION SPECIFICALLY DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST PROFITS. The discussion herein of various processes or compositions is not to be interpreted as a representation that they are free from domination of patents owned by others or as a license under any LOCTITE CORPORATION patents which may cover such processes or compositions. We recommend that each prospective user test the proposed application to determine its suitability for the purposes intended prior to incorporation to determine its suitability for manufacturing process using this data as a guide. This product may be covered by one or more United States or foreign patents or patent application.



## Loctite Industrial

Loctite Corporation  
 1001 Trout Brook Crossing  
 Rocky Hill, Connecticut 06067  
 1-800-LOCTITE (562-8483)  
 www.loctite.com