

Technical Bulletin # 678A

Super Alloy Repair Products

## Bulletin Description

This Bulletin shows the relative Chemical Resistance of ITW Polymer Technologies' Super Alloy Repair Products. The level resistance to an individual chemical is indicated by one of the following three letters:

R – RESISTANT TO IMMERSION OR PROLONGED CONTACT

S – RESISTANT TO SPLASH AND SPILLAGE ONLY

N – NOT RECOMMENDED

## Chemical Resistance

	SUPER ALLOY <u>Titanium Putty</u>	SUPER CERAMIC <u>Repair Putty</u>	SUPER CERAMIC <u>Repair Liquid</u>
Acetaldehyde Conc.	S	S	S
Acetic Acid - up to 12%	R	R	R
Acetic Acid - 12 to 20%	S	S	S
Acetic Acid - Over 20%	N	N	N
Acetone - 100%	N	N	N
Acids, Dilute Inorganic	R	R	R
Acrylic Acid	N	N	N
Aldehydes	S	S	S
Allyl Chloride	S	S	S
Alum, Ammonium	R	R	R
Aluminum Chloride	R	R	R
Aluminum Sulfate	R	R	R
Aluminum Potassium Sulfate	R	R	R
Aliphatic Hydrocarbons	R	R	R
Ammonia, 10%	R	R	R
Ammonia, 25%	N	N	N
Ammonium Chloride	S	S	S
Ammonium Bicarbonate	R	R	R
Ammonium Bifluoride	R	R	R
Ammonium Nitrate	S	S	S
Ammonium Phosphate	S	S	S
Ammonium Sulfate	S	S	S
Amyl Acetate	S	S	S
Amyl Alcohol	R	R	R
Amyl Chloride	S	S	S
Antimony Chloride, Tri-	R	R	R
Aromatic Hydrocarbons	R	R	R
Aniline	N	N	N
Beer	S	S	S
Benzaldehyde	N	N	N
Benzene	N	N	N
Benzene Hexachloride	R	R	R
Benzene Sulfonic Acid	S	S	S
Bleach Liquor	S	S	S
Boric Acid	R	R	R
Bromine Water	S	S	S
Butyl Acetate	S	S	S
Butyl Alcohol	R	R	R

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ITW Performance Polymers Europe  
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	<u>SUPER ALLOY Titanium Putty</u>	<u>SUPER CERAMIC Repair Putty</u>	<u>SUPER CERAMIC Repair Liquid</u>
Butyl Cellosolve	R	R	R
Butyric Acid (Dilute)	R	R	R
Calcium Chlorate	S	S	S
Calcium Chloride	S	S	S
Calcium Hydroxide	S	S	S
Calcium Hypochlorite	S	S	S
Carbon Bisulfide	S	S	S
Carbon Tetrachloride	N	N	N
Caustic Soda	R	R	R
Caustic Potash	R	R	R
Chlorinated Solvents	S	S	S
Chlorine Solution	R	R	R
Chlorine Gas	R	R	R
Chlorobenzene	N	N	N
Chlorosulfonic Acid, Dilute	R	R	R
Chromic Acid - up to 20%	R	R	R
Chromic Acid - over 20%	N	N	N
Citric Acid, 50%	S	S	S
Citric Acid, Dilute 20%	R	R	R
Copper Chloride	R	R	R
Copper Sulfate	S	S	S
Cyclohexanol 100%	R	R	R
Cyclohexanone 100%	N	N	N
Detergents	S	S	S
Dibutyl Phthalate	S	S	S
Diethyl Ether	R	R	R
Diethylenetriamine 10%	S	S	S
Dimethyl Phthalate	S	S	S
Dioxane	N	N	N
Ethers	S	S	S
Ethyl Alcohol 96% (192 Proof)	R	R	R
Ethylenediamine	N	N	N
Ethylene Dichloride	S	S	S
Ethylene Glycol	R	R	R
Fatty Acids	S	R	R
Ferric Chloride	R	R	R
Ferric Nitrate	S	S	S
Ferric Sulfate	R	R	R
Formaldehyde, 10%	R	R	R
Formaldehyde, 37%	S	S	S
Formic Acid	N	N	N
Gasoline, Regular	R	R	R
Gasoline, Aviation	R	R	R
Glycerin	R	R	R
Glycerol	S	S	S
Hydrobromic Acid	S	S	S
Hydrochloric Acid, 20%	R	R	R
Hydrochloric, Concentrated	S	S	S
Hydrocyanic Acid	S	S	S

R - Resistant to Immersion or Prolonged Contact

S - Resistant to Splash and Spillage Only

N - Not Recommended

	<u>SUPER ALLOY Titanium Putty</u>	<u>SUPER CERAMIC Repair Putty</u>	<u>SUPER CERAMIC Repair Liquid</u>
Hydrofluoric Acid	N	N	N
Hydrogen Peroxide, Dilute	S	S	S
Hydrogen Sulfide	R	R	R
Hypo Solution	R	R	R
Hypochlorous Acid	S	S	S
Hexylene Glycol	R	R	R
Iodine	S	S	S
Kerosene	R	R	R
Ketones	S	S	S
Kraft Cooking Oil, Acid	R	R	R
Kraft Cooking Oil, 250°F	S	S	S
Lactic Acid (Dilute)	R	R	R
Linseed Oil	S	S	S
Magnesium Chloride	S	S	S
Magnesium Sulfate	S	S	S
Maleic Anhydride	S	S	S
Mercuric Chloride	S	S	S
Mercurous Nitrate	S	S	S
Methyl Alcohol	S	S	S
Methylene Dichloride	N	N	N
Methyl Ethyl Ketone	S	S	S
Milk	R	R	R
Mineral Oil	R	R	R
Molasses	R	R	R
Motor Oil	R	R	R
Nickel Chloride	R	R	R
Nickel Sulfate	R	R	R
Nitric Acid - 10%	S	S	S
Nitric Acid, Concentrated	N	N	N
Nitrobenzene 100%	N	N	N
Oleic Acid	S	S	S
Oxalic Acid	S	S	S
Oxygen	R	R	R
Phenol	N	N	N
Phosphoric Acid, Dil. 20%	R	R	R
Plating Solutions	S	S	S
Potassium Carbonate	S	S	S
Potassium Chloride	S	S	S
Potassium Dichromate	S	S	S
Potassium Hydroxide 40%	S	S	S
Potassium Nitrate	R	R	R
Sea Water	R	R	R
Soap Solution	R	R	R
Sodium Bisulfate	S	S	S
Sodium Bichromate Sol. 66g/10	R	R	R
Sodium Carbonate	R	R	R
Sodium Chloride	S	S	S

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Sodium Chlorite 10g/100	R	R	R
Sodium Hydroxide, 50%	R	R	R
Sodium Hypochlorite	S	R	R
Sodium Methoxide	S	S	S
Sodium Nitrate	R	R	R
Sodium Phosphate, Tri - 5%	R	R	R
Sodium Sulfate 5%	R	R	R
Sodium Trisulfate	S	S	S
Stearic Acid	R	R	R
Stannic Chloride	R	R	R
Styrene	N	N	N
Sugar	R	R	R
Sulfamic Acid	R	R	R
Sulfur Dioxide	R	R	R
Sulfuric Acid, 20%	R	R	R
Sulfuric Acid, 50%	S	S	S
Sulfuric Acid, 95%	N	N	N
Tannic Acid	S	S	S
Tartaric Acid	R	R	R
Tetrachloroethane	N	N	N
Tetroethylene Pentamine	R	R	R
Toluene Sulfonic Acid	S	S	S
Toluene	N	N	N
Trichloroacetic Acid	N	N	N
Trichlorethylene	N	N	N
Trisodium Phosphate, 15%	R	R	R
Turpentine	N	N	N
Urea	R	R	R
Urine	R	R	R
Vinegar	R	R	R
Water, Boiling Steam	S	S	S
Wax Emulsion	R	R	R
Wine	R	R	R
Zinc Chloride	S	S	S
Zinc Sulfate	S	S	S

**Date**

10/2005

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