











































## 5.0 LIST OF CHEMICALS AND BAL SEAL® MATERIALS

CHEMICAL	PTFE TA TFM T6	G G 5	GC GC 5 GF GF5	GFP 55	GFPM 55	GLMO4 MOS	SP 50 SP 59 SP 5 SP 36	SP 45 SP 23 SP 191 SP83	FC 10	UPC UP 30 UP 15 UP 16 UPC25	P 40 / P 41/ P170	
											P43 / P69D	
											73°F (23°C)	212°F (100°C)
Salt Cake	A	A	A	NA	NR	A	A	A	A	NA	NA	NA
Salt Cake (Aqueous)	A	A	A	NA	NR	A	A	A	A	NA	NA	NA
Salt Water	A	A	A	A	NR	A	A	A	NR	A	A	A
Sea Water	A	A	A	A	NR	A	A	A	NR	A	A	A
Sewage	A	A	A	NA	A	A	A	A	Q	NA	A	A
Silicone Oils and Greases	A	A	A	A	A	A	A	A	Q	A	A	A
Silver Nitride	A	NA	NA	NA	A	A	A	A	Q	A	A	A
Skydrol 500	A	A	A	NA	A	A	A	A	Q	NA	A	NA
Skydrol 7000	A	A	A	NA	A	A	A	A	Q	NA	A	NA
Soap, Liquors	A	A	A	NA	A	A	A	A	Q	NA	A	NA
Soap, Solutions	A	A	A	A	A	A	A	A	Q	A	A	NA
Soda Ash	A	A	A	NA	A	A	A	A	Q	NA	A	NA
Sodium (Elevated Temperature)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Sodium Acetate (Anhydrous)	A	A	A	A	NR	A	A	A	Q	NA	A	NA
Sodium Aluminate	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sodium Bicarbonate (Aqueous)	A	A	A	A	NR	A	A	A	A	A	A	NA
Sodium Bisulfate	A	A	A	NA	NR	A	A	A	Q	A	NA	NA
Sodium Bisulfite	A	A	A	NA	NR	A	A	A	Q	A	NA	NA
Sodium Borate	A	A	A	NA	NR	A	A	A	Q	A	NA	NA
Sodium Carbonate (Aqueous)	A	A	A	A	NR	A	A	A	Q	A	A	NA
Sodium Chloride Sol. (Common Salt)	A	A	A	A	NR	A	A	A	Q	A	A	NA
Sodium Cyanamide	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sodium Cyanide (Aqueous)	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sodium Hydrosulfite	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sodium Hydroxide solution	A	A	A	A	NR	NA	A	A	Q	A	A	NA
Sodium Hydroxide (Aqueous)	A	A	A	A	NR	Q	A	A	Q	A	NA	NA
Sodium Hypochlorite	A	Q	Q	Q	NR	A	A	A	Q	A	A	A
Sodium Metaphosphate	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sodium Metasilicate	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sodium Nitrate (Aqueous)(Soda Niter)	A	Q	Q	Q	NR	A	A	A	Q	A	A	A
Sodium Perborate	A	Q	Q	NA	NR	A	A	A	Q	A	NA	NA
Sodium Peroxide, Aqueous	A	Q	Q	NA	NR	A	A	A	Q	Q	A	A
Sodium Phosphate, (Aqueous)	A	A	A	NA	NR	A	A	A	Q	A	A	A
Sodium Plumbite (Aqueous)	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sodium Silicate (Aqueous)(Water Glass)	A	A	A	A	NR	A	A	A	Q	A	A	A
Sodium Sulfide	A	A	A	A	NR	A	A	A	Q	A	A	A
Sodium Sulfite (Aqueous)	A	A	A	A	NR	A	A	A	Q	NA	A	A
Sodium Sulphate (Aqueous)(Glaubers Salt)	A	A	A	A	NR	A	A	A	Q	A	A	A
Sodium Tetraborate	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA

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## 5.0 LIST OF CHEMICALS AND BAL SEAL® MATERIALS

CHEMICAL	PTFE TA TFM T6	G G 5	GC GC 5 GF GF5	GFP 55	GFPM 55	GLMO4 MOS	SP 50 SP 59 SP 5 SP 36	SP 45 SP 23 SP 191 SP83	FC 10	UPC UP 30 UP 15 UP 16 UPC25	P 40 / P 41/ P170	
											P43 / P69D	
											73°F (23°C)	212°F (100°C)
Sodium Thiosulfate	A	A	A	A	NR	A	A	A	Q	A	NA	NA
Solvasol 1, 2 and 3	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Solvasol 73, 74	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sorbitol	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Stain Removers	A	A	A	A	A	A	A	A	A	Q	NA	NA
Starch	A	A	A	NA	NR	A	A	A	Q	A	A	NA
Steam	A	A	A	A	A	A	A	A	Q	A	A	NA
Stoddard Solvent	A	A	A	A	A	A	A	A	Q	NA	NA	NA
Styrene (Monomer)(Vinylbenzene)	A	A	A	NA	A	A	A	A	Q	Q	A	NA
Sugar (Aqueous)	A	A	A	NA	A	A	A	A	A	NA	A	NA
Sulfur Chloride (Aqueous)	A	A	A	NA	A	A	A	A	Q	NA	A	A
Sulfur Dioxide and Water	A	A	A	A	A	A	A	A	Q	A	A	A
Sulfur Dioxide (Dry)	A	A	A	A	A	A	A	A	Q	A	A	A
Sulfur Trioxide (Dry)	A	Q	Q	NA	A	A	A	A	Q	NR	A	A
Sulfur Trioxide (Wet)	A	NR	NR	NR	A	A	A	A	Q	NR	A	A
Sulfur, Molten	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Sulfonated Fatty Alcohol	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Sulfonated Vegetable Oils	A	NA	NA	NA	A	A	A	A	A	NA	NA	NA
Sulfuric Chlorohydrin	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Sulfuric Ether	A	A	A	A	A	A	A	A	Q	Q	NA	NA
Sulfuryl Chloride	A	A	A	A	A	A	A	A	Q	A	NA	NA
Syrup, (Sucrose Soln.)	A	A	A	NA	A	A	A	A	Q	A	A	NA
Tall Oil	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Tallow	A	A	A	NA	A	A	A	A	Q	A	A	A
Tanning Liquors	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Tar and Ammonia with Water	A	A	A	NA	A	A	A	A	Q	NA	A	NA
Tar, Bituminous	A	A	A	NA	A	A	A	A	Q	NA	A	NA
Tar, Pine	A	A	A	NA	A	A	A	A	Q	NA	A	NA
Tetra Ethyl Lead	A	A	A	NA	NR	A	A	A	Q	A	A	NA
Tetrabromoethane	NA	NA	NA	NA	NR	NA	NR	NR	NR	NR	NA	NA
Tetrachloro Ethane	A	A	A	NA	NR	A	A	A	Q	NR	NA	NA
Tetrachloro Ethylene	A	A	A	NA	NR	A	A	A	Q	NR	NA	NA
Tetrafluoroborate	A	A	Q	A	A	A	A	Q	Q	NR	NA	NA
Tetrahydrofuran (THF)	A	A	A	A	NR	A	A	A	Q	Q	A	NA
Tetraphenyl	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Therminol #1, 2 and 3	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Thionyl Chloride	NA	NA	NA	NA	NR	NA	A	A	Q	NR	NA	NA
Thiophene	NA	NA	NA	NA	NR	NA	A	A	Q	Q	NA	NA
Titanium Tetrachloride	A	A	A	NA	NR	A	NA	NA	Q	NA	NA	NA
Toluene	A	NA	NA	NA	NR	A	NA	NA	Q	Q	A	NA
Tomato Pulp	A	A	A	A	NR	A	A	A	Q	A	NA	NA

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											P43 / P69D	
											73°F (23°C)	212°F (100°C)
Toxaphene	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Trichlorobenzene	A	A	A	NA	A	A	A	A	Q	NR	NA	NA
Trichloroethane (Dry)	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Trichloroethane (Wet)	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Trichloronitromethane	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Trichloroethylene (Dry)	A	A	A	Q	NR	A	A	A	Q	Q	A	A
Trichloroethylene (Wet)	A	A	A	Q	NR	A	A	A	Q	Q	A	A
Trichlorotrifluoroethane	A	NA	NA	NA	NR	A	NA	NA	Q	NA	A	NA
Tricresyl Phosphate (TCP)	A	A	A	NA	NR	A	A	A	Q	A	NA	NA
Triethyl Amine	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Trisodium Phosphate	A	A	A	A	NR	A	A	A	Q	A	NA	NA
Tri-Fluoro-Vinyl-Chloride	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Urea and Phenolic Resins	A	A	A	NA	A	A	A	A	Q	NA	A	A
Urea, Anhydrous (Carbamide)	A	A	A	NA	A	A	A	A	Q	NA	A	A
Urine	A	A	A	NA	A	A	Q	A	Q	A	A	A
Varnish, Aromatic	A	A	A	NA	A	A	A	A	Q	NA	A	NA
Varnish, Non-Aromatic	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Vaseline	A	A	A	A	A	A	A	A	Q	Q	NA	NA
Vegetable Juices	A	A	A	NA	NR	A	A	A	A	NA	A	NA
Vetrocoke Solution (Wet)	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Vinegar	A	A	A	A	NR	A	A	A	A	A	A	A
Vinyl Chloride (Chloroethene)	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Vinyl Pyridine	A	A	A	NA	A	A	A	A	Q	NA	NA	NA
Vinylidene Chloride	A	NA	NA	NA	A	A	A	A	Q	NA	NA	NA
Vitriole, White	A	A	A	A	A	A	A	A	Q	NA	NA	NA
Water Food Service	A	NA	NA	NA	NR	A	Q	A	NR	NA	A	A
Water, Boiler Feed	A	A	A	A	NR	A	Q	A	NR	NA	A	A
Water, Brackish	A	A	A	A	NR	A	Q	A	NR	NA	A	A
Water, Clean Untreated	A	NA	NA	A	NR	A	Q	A	NR	NA	A	A
Water, Condensate	A	A	A	A	NR	A	Q	A	NR	NA	A	A
Water, Cooling Tower	A	A	A	A	NR	A	Q	A	NR	NA	A	A
Water, Distilled	A	A	A	A	NR	A	Q	A	NR	A	A	A
Water, Fresh	A	A	A	A	NR	A	Q	A	NR	NA	A	A
Water, Heavy	A	A	A	NA	NR	A	Q	A	NR	NA	A	A
Water, Hot	A	A	A	A	NR	A	Q	A	NR	NA	A	A
Water, Mine	A	A	A	A	NR	A	Q	A	NR	NA	A	A
Water, River	A	A	A	A	NR	A	Q	A	NR	NA	N	A
Water, Salt and Sea, Solution	A	A	A	A	NR	A	Q	A	NR	A	A	A
Water, Soapy	A	A	A	A	NR	A	Q	A	NR	NA	A	A
Water, with Soluble Oil	A	A	A	NA	NR	A	Q	A	NR	NA	A	A
Wax Alcohols	A	A	A	A	NR	A	Q	A	A	Q	NA	NA
Whiskey	A	A	A	NA	NR	A	Q	A	A	A	A	NA

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											P43 / P69D	
											73°F (23°C)	212°F (100°C)
White Liquor	A	A	A	NA	NR	A	Q	A	A	Q	A	NA
White Spirit	A	A	A	NA	NR	A	A	A	A	A	A	NA
White Water, Paper Mill	A	A	A	NA	NR	A	A	A	Q	NA	A	NA
Wine	A	A	A	NA	NR	A	Q	A	A	A	A	NA
Wood Pulp (Stock)	A	A	A	NA	NR	A	A	A	Q	NA	A	NA
Wood Vinegar	A	A	A	NA	NR	A	A	A	A	NA	A	NA
Wort (Beer Wort)	A	A	A	NA	NR	A	Q	A	A	NA	A	NA
Xylene (Dimethylbenzene)	A	A	A	A	NR	A	A	A	Q	Q	A	NA
Yeast	A	A	A	NA	NR	A	A	A	A	A	A	A
Zeolite Treated Water	A	A	A	NA	NR	A	A	A	Q	NA	NA	NA
Zinc Chloride (Dry)	A	A	A	A	A	A	A	A	Q	NA	A	A
Zinc Cyanide	A	A	A	NA	A	A	A	A	Q	A	NA	NA
Zinc Nitrate	A	A	A	NA	A	A	A	A	Q	A	NA	NA
Zinc Phosphate	A	A	A	NA	A	A	A	A	Q	A	NA	NA
Zinc Sulfate	A	A	A	NA	A	A	A	A	Q	A	A	A

A=ACCEPTABLE • Q=QUESTIONABLE • NR=NOT RECOMMENDED • NA=NOT AVAILABLE