



Conductivity-Based Liquid Level Controls Media Sensitivity Data

Sensitivity and Material Selection Guide

Liquid or Material	Sensitivity - Conductivity		Probe Material		Liquid or Material	Sensitivity - Conductivity		Probe Material	
	Ohms/cm	Micro-Mhos/cm	Good*	Better**		Ohms/cm	Micro-Mhos/cm	Good*	Better**
†Acids	<i>Consult Factory</i>		<i>Consult Factory</i>		Juices - Fruit/Vegetable	1K	1K	316 SS	316 SS
Aluminum Hydroxide	2.2K	450	316 SS	Titanium	Lithium Chloride	1K	1K	N.A.	Carp. 20
Aluminum Sulfate	2.2K	250	316 SS	Hast. C	Magnesium Chloride	1K	1K	316 SS	Carp. 20
Ammonia	5K	200	316 SS	N.A.	Magnesium Hydroxide	2.2K	450	316 SS	N.A.
Ammonium Chloride	1K	1K	316 SS	Titanium	Mayonnaise	5K	200	316 SS	316 SS
Ammonium Hydroxide	10K	100	316 SS	Titanium	Mercuric Chloride	90K	11	N.A.	Titanium
Ammonium Nitrate	18K	50	316 SS	316 SS	Milk	1K	1K	316 SS	316 SS
Ammonium Sulfate	10K	100	316 SS	Titanium	Molasses	10K	100	316 SS	316 SS
Baby Foods	1K	1K	316 SS	316 SS	Mustard	1K	1K	316 SS	316 SS
Barium Chloride	1K	1K	Carp. 20	N.A.	Oil - Soluble	10K	100	N.A.	316 SS
Barium Nitrate	1K	1K	316 SS	N.A.	Paper Stock	5K	200	Titanium	N.A.
Beer	2.2K	450	316 SS	316 SS	Photographic Solutions	1K	1K	316 SS	Hast. C
Black Liquor	1K	1K	<i>Consult Factory</i>		Plating Solutions	2.2K	450	N.A.	316 SS
Borax - Aqueous	10K	100	Brass	316 SS	Potassium Chloride	1K	1K	316 SS	Titanium
Bourbon	200K	5	N.A.	316 SS	Salts - Chemical	2.2K	450	Monel	N.A.
Brine	1K	1K	N.A.	Hast. C	Sewage	5K	200	316 SS	316 SS
Buttermilk	1K	1K	N.A.	316 SS	Silver Nitrate	1K	1K	316 SS	Carp. 20
Cadmium Chloride	1K	1K	316 SS	N.A.	Soap Foam	18K	50	316 SS	316 SS
Cadmium Nitrate	1K	1K	316 SS	N.A.	Sodium Carbonate	2.2K	450	316 SS	Monel
Cake Batter	5K	200	316 SS	316 SS	Sodium Hydroxide	1K	1K	316 SS	Hast. B
Calcium Chloride	1K	1K	Carp. 20	Hast. C	Soups	1K	1K	316 SS	316 SS
Calcium Hydroxide	10K	100	316 SS	Titanium	Starch Solutions	5K	200	316 SS	316 SS
Catsup	2.2K	450	316 SS	316 SS	Vinegar - Aqueous	2.2K	450	316 SS	Carp. 20
Caustic Soda	1K	1K	316 SS	Hast. B	Water - Carbonated	3K	330	316 SS	316 SS
Cement Slurry	5K	200	316 SS	316 SS	Water - Condensate	18K	50	Brass	316 SS
Coffee	2.2K	450	316 SS	316 SS	Water - Chlorinated	5K	200	316 SS	Monel
Corn Syrup	45K	21	316 SS	316 SS	Water - Distilled	450K	2	Brass	316 SS
Corn - Cream Style	2.2K	450	316 SS	316 SS	Water - Deionized	2.0M	.5	Brass	316 SS
Ferric Chloride	10K	100	N.A.	Titanium	Water - Hard/Natural	5K	200	Brass	316 SS
Ferrous Sulfate	10K	100	Carp. 20	Titanium	Water - Salt	2.2K	450	Monel	N.A.
Ink (Water Base)	2.2K	450	N.A.	316 SS	Wine	2.2K	450	316 SS	316 SS
Jams/Jellies	45K	21	316 SS	316 SS	Zinc Chloride	1K	1K	Carp. 20	Titanium
					Zinc Sulfate	2.2K	450	316 SS	Titanium

* Less than .020" erosion per year

** Less than .002" erosion per year

N.A.= No material available with this erosion rate

†Note: Liquid concentration and temperature will affect conductivity and material erosion rate. Contact Factory for detailed information.