

**TIGERMAG EP ELECTROMAGNETIC FLOWMETER
CONDUCTIVITIES OF SELECTED LIQUIDS**

Magnetic flowmeters can measure a wide variety of liquids accurately if the liquid is conductive. Sparling's TigermagEP series of meters can measure the flow of liquids with conductivities of 5 micromhos/cm or greater. The following table gives conductivities of many of the chemicals which will be encountered and will allow you to quickly determine if a magnetic flowmeter is applicable. Consult the factory for chemicals which are not listed.

We can provide testing of field samples for conductivity provided that they are not hazardous. Tests are limited to temperatures between 32°F and 212°F. Tests can usually be performed within 1 week of receipt. Contact the factory for authorization prior to sending any samples.

Table 1 contains liquids which are normally adequately conductive and thus measurable by the TigermagEP series of meters.

**TABLE 1
CONDUCTIVITY NORMALLY
>5 MICROMHOS/CM**

Acetamide	Ammonium Sulfate
Acetic Acid	Asphalt Emulsion
Aluminum Chloride, 80%	Barium Chloride
Aluminum Fluoride	Barium Hydroxide, 50%
Aluminum Nitrate	Barium Nitrate
Aluminum Potassium Sulfate	Barium Sulfate
Aluminum Sulfate, 50%	Black Liquor
Ammonia	Boric Acid, 50%
Ammonium Bicarbonate, 50%	Brine
Ammonium Bifluoride, 50%	Butyric Acid
Ammonium Bisulfate	Cadmium Bromide
Ammonium Carbamate, 50%	Cadmium Nitrate
Ammonium Carbonate, 50%	Cadmium Sulfate
Ammonium Chloride	Calcium Bisulfite
Ammonium Fluoride, 50%	Calcium Bromide
Ammonium Hydroxide	Calcium Carbonate
Ammonium Iodide	Calcium Chlorate, 30%
Ammonium Nitrate	Calcium Chloride, 90%
Ammonium Persulfate	Calcium Hydroxide
Ammonium Phosphate	Calcium Hypochlorite, 6%



**TABLE 1 (Continued) CONDUCTIVITY NORMALLY
>5 MICROMHOS/CM**

Coca Cola Syrup	Lead Nitrate, 60%
Coffee Extract	Lime (Calcium Hydroxide)
Cranberries, crushed	Lithium Carbonate
Cream Cheese Mix	Lithium Chloride
Cupric Chloride	Lithium Hydroxide
Cupric Nitrate, 50%	Lithium Iodide
Cupric Sulfate	Lithium Sulfate
Copper Ore Slurry	Malic Acid
Ferric Chloride, 50%	Malic Acid
Ferric Nitrate, 10%	Magnesium Carbonate, 10%
Ferric Sulfate, 10%	Magnesium Chloride
Ferrous Chloride, 10%	Magnesium Nitrate
Ferrous Sulfate, 50%	Magnesium Sulfate
Fluosilicic Acid	Manganese Chloride
Formaldehyde, 35%	Mercury
Formic Acid, (All Conc.)	Mercuric Bromide
Fruit Juices	Mercuric Chloride, 60%
Fudge	Milk (Skim and Regular)
Gallium	Molasses
Germanium	Nickel Chloride, 20%
Tetrabromide	Nickel Nitrate, 10%
Glucose	Nickel Sulfate
Glutamic Acid	Nitric Acid (All Conc.)
Green Liquor	Oleum
Hydrochloric Acid, (All Conc.)	Oxalic Acid (All Conc.)
Hydrocyanic Acid	Paper Pulp
Hydrofluoric Acid, 48%	Phosphate Slurry
Hypochlorous Acid, 80°F	Phosphoric Acid, 30%
Hydrogen Peroxide	Phosphoric Acid, 80%
Hydrogen Sulfide	Photographic Emulsion
Iodic Acid	Polystyrene
Lactic Acid, 10-85%	Potassium Acetate
Latex	
Latex Paint	

