

## PRODUCTS AND PROCESSES

The Ultra-Viscoson consists of a small sensing element or probe and an electronic computer. Ultrasonic energy vibrates a thin alloy steel blade in the end of the probe which is immersed in the liquid under test. The viscosity of the fluid being tested affects the ultrasonic vibrations and the fluctuations of the vibrations are followed on an electronic recorder.

The probe can be permanently installed in a pipeline or kettle and when connected to the recorder a continuous viscosity curve can be obtained. The instrument can operate under a wide variety of physical conditions ranging from vacuum to high pressure systems and in heat ranges from  $-200^{\circ}$  F. to  $650^{\circ}$  F.

The device seems to be adapted to many applications in the food processing industry such as condensed milk, soup, syrups, and sauces, where viscosity measurements during processing are essential to quality control. In the chemical industries the Ultra-Viscoson has been used to follow pilot plant production cycles automatically and continuously.

E6

### Ultraviolet Inspection Lamp

An ultraviolet lamp for inspection use in laboratories, industry, and agriculture is announced by Ultra-Violet Products, Inc. Called the model B-50-H Mineralight, it is said to throw a directional beam of 3360 Å. wave length up to 30 ft. away. The lamp is rated at 100 Watts and operates on 110-v. a.c. Radiation is said to be noninjurious to the eyes and skin.

In combination with invisible fluorescent inks, dyes, or powders, it can be used for determining flaws, adulteration, decay, and contamination. Some types of decay bacteria can be determined without additives.

E7

### Pump for Problem Materials

A pneumatic ejector called a Pneu-Pump is available from the Yoemans Bro. Co. The company claims that the device is unusually simple and capable of pumping any fluid which will flow into it including: brine, mud, molasses, sludges, and slurries. Compactness of design and the presence of only one moving part are claimed to make the Pneu-Pump simple to install and operate.

E8

### Laboratory Incubators

Heavy duty stainless steel laboratory incubators are now offered by the Fischmann Co. The units are of the gravity-convection, wet-type design, with controlled temperature ranges from 20 to  $60^{\circ}$  C. with not more than  $0.5^{\circ}$  variation.

E9

### Emulsifiable Organometallics For Fungicide Use

Emulsifiable concentrates of organometallics for use as fungicides are available from H. L. Woudhuysen & Associates. The preparations, which the company calls emulgates, are concentrates of oil-soluble salts of aromatic and aliphatic compounds of copper, cobalt, cadmium, manganese, mercury, silver, and zinc, which form stable emulsions in water. The company claims that the advantages of this method of preparation include the absence of dust and fumes and improved penetration, spreading, adherence, and film-forming characteristics.

P1

### Soil Conditioner with Granulated Carrier

American Potash & Chemical Corp. is about to market a soil conditioner under the trade name Tronatil. Consisting of vinyl acetic-maleic anhydride the preparation will be produced by the Eston Chemical Division of American Potash under license agreements with Monsanto.

American Potash claims that the product will be compounded with a new granular type of carrier for increased effectiveness. Tronatil will be marketed nationally by Eston Chemical Division through established dealers and wholesalers in 5, 10, and 50-lb. packages.

P2

### Phenolic Coatings for Storage Tanks

Standard baked phenolic coatings for use in tank cars, storage tanks and other chemical processing equipment requiring protection from corrosion have been developed by Lithcote Corp. The products are air dried vinyls and baked and modified phenolics of various kinds each developed to meet specific needs.

P3

### Research Quantities of Catalase

A preparation of the enzyme catalase is available for research and development work from Armour & Co. Called Armour Catalase 10, the material is a tan colored powder isolated from liver. The company believes that there should be a potentially large number of food and industrial applications because of the action of catalase with hydrogen peroxide.

The enzyme is a specific catalyst for the breakdown of hydrogen peroxide to



One type of gravity feed syringe which may be used for continuous injections of Pfizer's terramycin mineral oil suspension for chronic respiratory disease of poultry

water and oxygen. This makes it possible to stop the action of hydrogen peroxide at almost any desired point in a processing application. Armour says that the material is being evaluated in conjunction with hydrogen peroxide for the selective control of microorganisms in dairy products and other edible preparations.

P4

### Terramycin Used Against Chronic Respiratory Disease

A successful treatment for chronic respiratory disease, which has been a new and constantly growing threat to poultrymen, has been announced by Chas. Pfizer.

E. H. Peterson has reported on experiments using terramycin in oil in which one injection of the oil suspension was effective in eliminating symptoms of the disease. Pfizer claims that this new product is the first conclusive development in the fight against this disease which annually costs the nation's poultrymen millions of dollars.

P5

Use coupon, page 274, for further information