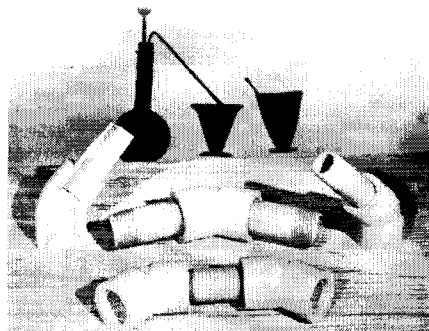


# NEW PRODUCTS AND EQUIPMENT

## Corrosion Resistant Plastic Pipe



Corrosion resistant rigid plastic pipe available from American Hard Rubber Co. The pipes are constructed of a lightweight, odorless, tasteless material with excellent resistance to most inorganic acids and alkalis. The pipes have a limited resistance to organic solvents. Pipe is supplied in sizes from 1/2 to 2 inches in standard 20-foot lengths. Working pressures range from 75 to 150 pounds per square inch for the standard walled pipe PE1

## Sanitary Food Pump

Vanton Pump & Equipment Corp. has announced the availability of a "Sani-Flex" sanitary pump for use in dairy, food, bottling, and industrial applications. Manufacturer claims the pump offers a radical departure from conventional sanitary pump equipment. Designed with the recommendations of health department authorities, along with food processors, the pump meets the sanitary requirements for transport of food products, pharmaceuticals, or chemically pure fluids. In addition to being highly resistant to corrosion and contamination, its gentle pumping action is claimed to prevent churning or foaming of the fluid. PE2

## Vinyl Plastic Irrigation Tubing

A better answer to low cost efficient field irrigation is claimed by the Texas Plastic Development Corp. The newly formed company is producing a low cost vinyl irrigation tubing which has been tested in the Southwest for field irrigation. The plastic tubing is available in diameters from 2 to 30 inches and with wall thicknesses of 20, 30, and 40 gauge. The more rigid tubing is recommended for transport of water from the pumps to the field, and the more flexible tubing is used to move the water on out to the plants.

Being flexible and lightweight, 270

feet of the 12-inch tubing weighs about 150 pounds, the farmer can move the tubing about in much the same manner as a housewife sprinkling the lawn with a garden hose.

Other purposes for which the vinyl plastic tubing has proven adaptable are discharge tubing in chemical plants, transportation of liquid fertilizers, and movement of oils and gases. PE3

## More Organics

Just announced is a list of 13 additions to the group of some 3500 Eastman organic chemicals sold for research, analytical, and teaching purposes by Distillation Products Industries.

Included among the new items is 4,4'-bis(2-amino-1-naphthylazo)2,2'-stilbenedisulfonic acid disodium salt, a titrimetric indicator reported to offer advantages over methyl orange for carbonate determination in water analysis. Phthalaldehydic acid, another of the newly added chemicals, consists of a benzene ring with an aldehyde group and an acid group in ortho relationship. It is believed useful in many condensations.

2,5-Dihydroxy- <i>p</i> -benzenedisulfonic acid dipotassium salt	(HO) <sub>2</sub> C <sub>6</sub> H <sub>2</sub> (SO <sub>3</sub> K) <sub>2</sub> .....	MW 346.42
3,3'-Dimethoxy-1,4'-biphenyl diisocyanate (pract.).....	MP 121-123°	
[—C <sub>6</sub> H <sub>3</sub> (OCH <sub>3</sub> )NCO] <sub>2</sub> .....	MW 296.27	
Dimethyl nitroterephthalate.....	MP 74-77°	
2-NO <sub>2</sub> C <sub>6</sub> H <sub>3</sub> -1,4-(COOCH <sub>3</sub> ) <sub>2</sub> .....	MW 239.18	
<i>trans</i> -1,4-diphenyl-2-butene-1,4-dione (pract.).....	MP 110-112°	
C <sub>6</sub> H <sub>5</sub> COCH:CHCO <sub>2</sub> C <sub>6</sub> H <sub>5</sub> .....	MW 236.26	
Isatoic anhydride.....	MP 240° dec.	
C <sub>6</sub> H <sub>4</sub> COOCONH.....	MW 163.13	
5-Phenyl-2,4-pentadienoic acid.....	MP 166-168°	
C <sub>6</sub> H <sub>5</sub> CH:CHCH:CHCOOH.....	MW 174.19	

PE4

## Soil Testing Device

An improved design in its IDM pressure membrane extractor is available from Irrigation Engineering Co.

This equipment, which is used in characterizing soils according to their ability to retain moisture, was designed by L. A. Richards, of the U. S. Salinity Laboratory at Riverside, Calif., and is currently being used by the departments of irrigation and soils of several universities.

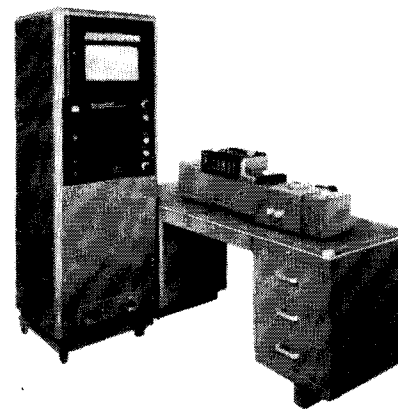
In addition to its primary purpose of determining moisture retention of soils, the IDM soil testing apparatus can be used for the rapid ultra-filtration of solutions; for extracting solution from soil samples for chemical analysis; for bringing soil to a standard and reproducible moisture tension condition; for classifying soils and evaluating land as to its irrigation and crop potential.

Constructed of brass and steel plates to insure corrosion resistance, the new IDM unit is easily disassembled for rapid determinations. PE5

## Rectangular Chromatography Jars

Rectangular chromatography jars 8 by 12 by 21 inches with a trough capacity almost double that of round jars are available from Research Specialties Co. Rectangular jars take 4 chromatograph troughs in an area of 96 square inches of bench space; 12" round jars on the other hand require a total of 144 square inches of space and accommodate only 2 troughs. Jar lids are of polished glass and fit the ground glass jar top. PE6

## Near Infrared Spectrophotometer



Ultraviolet near infrared spectrophotometer announced by Beckman. First commercially available instrument designed specifically for near infrared region of spectrum is claimed by manufacturer. Using a photomultiplier detector for ultraviolet work, the instrument offers a wave-length range from 220 to 270 m $\mu$ . PE7

➡ See coupon, page 1004, for further information ➡