

## LITERATURE AVAILABLE

**Nylon Strainer.** Catalog describes new nylon strainer, offered in 20-, 40-, and 80-mesh screens with more than 22 sq. in. of screen area. Designed for high capacity and corrosion resistance, it has many features needed in handling fertilizers and other agricultural chemicals. For complete information, request catalog 2-5-1 from Dept. A&F, DELAVAN MANUFACTURING Co., West Des Moines, Iowa.

**Bag Filling Machine.** Brochure of 8 pages describes automatic open-mouth bag filling machine said to bag 400 to 500 tons of free-flowing materials in an 8-hour day, with accuracy to within 4 oz. in 100 lbs. Brochure pictures installations in packaging of chemicals, feeds, fertilizers, and specialty products. For free copy of brochure address request to Dept. A&F, KRAFT BAG CORP., 630 Fifth Ave., New York 20, N. Y.

**Blending Equipment.** Bulletin describes agitating equipment used for thorough blending and coating of mixed feeds with molasses, animal fats, vitamin oils, fish solubles, milk products, and other liquid feed ingredients. Agitator is said to produce uniform blend without balling or lumping. Portable blender is also described. For copies of bulletin 11-60, write to Dept. A&F, PRATER PULVERIZER Co., 1515 S. 55th Court, Chicago 50, Ill.

**Soil Conditioning Equipment.** Specification sheet describes automatic device permitting simultaneous shredding and spraying of soil with liquids—such as sterilants, fertilizers, pesticides, insecticides, or herbicides. Spray attachment is particularly useful in preparation of sterile soils for nurseries, greenhouses, and top dressing users. For complete information, write to Dept. A&F-SS, ROYER FOUNDRY & MACHINE Co., Kingston, Pa.

**Enzyme Feed Supplements.** Two new products are the outgrowth of a research program to develop new and improved enzyme feed supplements for the poultry, cattle, swine, and mink industries. Rhozyme F-1A, particularly useful in upgrading Western barley to equal corn in feeding value in chick and poultry feeds, is said to improve litter conditions and give economic advantages to poultry producers in corn deficient areas. Rhozyme F-3C, as a supplement in low-moisture corn rations in the fattening of cattle, is said to produce over-all in-

creases in average daily gains, feed utilization, and feed consumption. Additional information is available from Dept. A&F, Agricultural and Sanitary Chemicals, ROHM & HAAS Co., Washington Square, Philadelphia 5, Pa.

**Alfalfa Movie.** New motion picture, "Growing Alfalfa Successfully," presents the value and uses of alfalfa, its origin and introduction into North America, and soil and nutrient requirements of the crop. Included also are the latest management techniques, such as fertilization and liming, seeding, inoculation, cutting, and control of weeds, insects, and diseases. The 16 mm color movie, 25 minutes long, was produced for use by agricultural college personnel, county agents, vo-ag teachers, and other specialists in official agriculture and industry. From the main movie, two shorts have been developed—"Alfalfa, Queen of the Forages" and "Good Alfalfa Requires Good Fertility." Each runs 10 minutes and contains the same information as the main movie. The master movie or its condensed versions

can be booked free of charge for qualified groups by contacting Dept. A&F, AMERICAN POTASH INSTITUTE, 1102 16th St., N.W., Washington 6, D. C.

**Flavors, Odors.** Wholesale price list, available to those who purchase in wholesale quantities, includes prices for aromatic chemicals, colors, citrus concentrates, essential oils, terpeneless and sesquiterpeneless oils, tinctures, other specialty chemicals. For copy of price list address request to Dept. A&F, FRITZSCHE BROTHERS, INC., 76 Ninth Ave., New York 11, N. Y.

**Spray Nozzle Tips.** Data sheet describes new series of spray nozzle tips for producing a "broadcast" type spray with boom mounted TeeJet Spray Nozzle. Tips provide a flat, 120° angle spray, projected at an angle of 75° to the spray nozzle axis. Wide angle permits close-to-ground mounting of the spray nozzle. This practically eliminates driftage and gives wide ground coverage per nozzle, reducing the number of nozzles needed per boom. Applica-

**MOISTURE LOSS CAN BE READ DIRECTLY AND CONTINUOUSLY THROUGHOUT THE ENTIRE DRYING CYCLE.**



### moisture determination balance

by

## OHAUS



**WEIGHING SYSTEM**  
This balance employs a magnetically damped, chain loaded, weighing system.

*The New Concept in Moisture Testing*

A combination drying unit and Precision Balance, this instrument can be used for solids or liquids, and shows the percentage of moisture directly to plus or minus 0.1%.

Variable control of 650 watt unbreakable heating element and adjustable heater to sample distance make possible a wide range of drying temperatures.

The timer, with one minute settings up to 60 minutes, shuts off automatically upon completion of the drying cycle.

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1050 COMMERCE AVE. UNION, NEW JERSEY

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tion includes spraying of "lay-by" and pre-emergence chemicals and nitrogen fertilizers. Tips are supplied in choice of brass and stainless steel for use with brass, stainless steel, or Nylon TeeJet Nozzle assemblies. A complete range of capacities is available. For further information, request Data Sheet 9165 from Dept. A&F, SPRAYING SYSTEMS Co., 3252 Randolph St., Bellwood, Ill.

**Liquid Fertilizer Pumps.** New 2-color bulletin deals with pumps for liquid fertilizer and "Morea" liquid feeds. Information on all types of Deming liquid fertilizer pumps, performance tables, construction information, and technical data are included. Some uses of these pumps are: nurse tank, plant blending, load out, plant storage, acid transfer, and transport. Illustrations and information on internal gear pumps for viscous liquids and "Morea" liquid feeds are also given. For copy of Bulletin 850-A, write to Dept. A&F, THE DEMING Co., Salem, Ohio.

**Atomizing Nozzles.** New bulletin describes the application, characteristics, construction, and operation of Fig. 661 hollow-cone and Fig. 661-S solid-cone atomizing nozzles. Capacity curves for each type, as well as specifications and prices, are given. For further information, write to Dept. A&F (JA-31), SCHUTTE & KOERTING Co., Cornwells Heights, Bucks County, Pa.

**Weed Control.** Advice on development of a weedfree lawn, identification of 35 important weeds, and weed grasses, and recommendations for their control by chemicals appear in 24-page, how-to booklet. Copies of "Have a Weed Free Lawn" can be obtained by sending request with 10¢ in coin to Dept. A&F, AMCHEM PRODUCTS Inc., Ambler, Pa.

**Vibratory Feeder.** Second and third in a new series of vibratory feeders are now available. Model FH-33 has a maximum capacity of 75 tons per hour, and model FH-45 350 tons per hour, based on handling damp sand or coarser material weighing 100 lbs. per cu. ft., in a standard 24" x 42" flat pan trough sloped 6° down-grade. Feed rates can be adjusted from maximum down to 10% of maximum. Both models are furnished complete with separate controllers for 230 or 460 volt, 60 cycle, single phase, a-c operation (Model FH-33 for 115 volt operation, also). For additional

information write to Dept. A&F, SYNTRON Co., 1222 Lexington Ave., Homer City, Pa.

**Filling Machine.** Newly revised 8-page, 3-color, fold-out brochure describes complete line of filling machines for liquids, creams, pastes, chemicals, and food products. Among machines described and illustrated are tube fillers, closers, and crimpers; combination liquid and paste fillers; single and twin volumetric liquid fillers; bench and floor type multiple liquid fillers; single semiautomatic and automatic straight-line volumetric fillers for pilot run and small plant production. For further information request copy of Colton Filling Brochure (AC-60 Revised) from Dept. A&F, ARTHUR COLTON Co, 3400 E. Lafayette, Detroit 7, Mich.

**Volumetric Feeder.** Illustrated 4-page catalog describes new volumetric feeder, introducing belt-and-feed-gate design. Made of aluminum with a vertical gate of stainless steel, it measures free-flowing powdered, granular, or lumpy solids by volume, with a maximum capacity of 3600 cfh. Two models are available and either can be converted to a gravimetric feeder by adding special components. For catalog and further information, write to Dept. A&F, WALLACE & TIERNAN INC., 25 Main St., Belleville, N. J.

**Packaging in Cellophane.** Description of properties and uses of cellophane for packaging many products is contained in 4-page booklet. A partial listing of over 100 varieties of cellophane demonstrates the material's versatility. Through modification in coating and reformulation of the base sheet, film is tailored to meet precise demands for packaging an ever-widening array of products. For free booklet, address request to Dept. A&F, E. I. DU PONT DE NEMOURS & Co., Inc., Wilmington 98, Del.

**Dry Feeders.** New technical brochure which details its "S" Series dry feeders is available from Tower Iron Works. Including charts and graphs showing cubic feet/min. capacities of Tower dry feeders at various rpm's, design features, and pre-engineered sizes available, brochure is of interest to those handling chemicals, food products, fertilizer or industrial minerals, and other dry materials. For copy, write Dept. A&F, TOWER IRON WORKS, Inc., Providence, R. I.

Interested personal service—  
always—  
when you buy from Eastman

## Basic Chemicals for Herbicides, Pesticides, Animal Feeds

### Intermediates for Herbicides and Pesticides

acetic acid  
propionic acid  
n-butyric acid  
isobutyric acid  
2-ethylhexoic acid  
ethyl alcohol  
n-butyl alcohol  
isobutyl alcohol  
2-ethylhexyl alcohol  
mixed octyl alcohols  
isobutyronitrile  
manganese sulphate  
(Tecmangam)  
triethyl phosphate

### Ingredients for Animal Feeds

Tenox® BHT—Agricultural Grade: A free-flowing, non-dusting form of BHT specially prepared for feed use.

Tecmangam®. Contains 75-78% manganese sulphate. Completely soluble. Readily assimilated.

For properties and shipping information on these and other Eastman products, see **Chemical Materials Catalog**, page 363, or **Chemical Week Buyers' Guide**, page 107.

# Eastman