New Products and Equipment . . .

Bag Packing Unit

An automatic bag packer, designed to bring speed and accuracy to medium sized packing operations, is introduced by Bemis Bro. Bag Co.

Small and medium size production lines processing feed, fertilizer, dry chemicals, and similar products often face expansions that place a strain on their original bag packing capacity and yet do not justify costly permanent or heavy duty installations. The Packer-Ette, as it is called, is said to fill the gap between the slow, cumbersome equipment frequently found in small bag packing operations and the expensive equipment necessary to larger operations.

Bag capacities of the "Packer-Ette" range from 25-lb. to 150-lb. sizes. It will handle any product that establishes an angle of repose, which is necessary for the pulsating feeder to operate properly. Typical of products packed successfully are sugar, cracker meal, poultry feeds, salt, and dry chemicals. For further information, write Dept. A&F, Bemis Bro. Bag Co., 408 Pine St., St. Louis 2, Mo.

Grain Fumigant

A grain fumigant has been formulated especially to spot-fumigate "hot spots" caused by insect accumulations in bulk stored grain. It can also be used for general fumigation in open-top and loosely constructed bins.

The manufacturer says three to five 10-oz. cans of the ethylene dibromide–carbon tetrachloride–ethylene dichloride formulation are sufficient to fumigate 1000 bu. of grain.

For further information, write Dept. A&F, E. H. Leitte Co., 1209 Glenwood Ave., Minneapolis, Minn.

Water Repellant Pesticide

Compounds with the water repellant properties of the conventional silicones and the fungicidal and pesticidal properties of the arsenicals have been synthesized by American Smelting & Refining and E. F. Houghton & Co. Known as arsonosiloxanes, the compounds are believed to have particular value for use in damp locations or humid atmospheres to protect materials from deterioration due to moisture and insect attack. Electrical insulations, canvas enclosures, and leather products are a few of the materials which might well be protected by the arsonosiloxanes.

Investigation showed that arsenic can be incorporated into siloxane structures by formation of Si-O-As bonds in a chemical reaction between organic chlorosilanes and organic arsonic acids. It appears feasible to form arsonosiloxane polymers through hydrolysis of chlorosilyl arsonates. Methyl and phenyl chlorosilyl arsonates were synthesized and hydrolyzed to the corresponding arsenical siloxane derivatives.

For further information, write Dept. A&F, American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.

Five Concentrated Nitrogen Solutions

Five concentrated nitrogen solutions are said to provide freight savings up to 7%. One of the solutions is specifically designed for manufacture of granular fertilizers. It is also said that the same solution can be used all year round because of its low salting out temperature. In addition to the Nitrana-type solutions, two Urana-type solutions are designed to give more flexibility to those manufacturers producing semigranulars and organic nitrogen fertilizer grades.

For more information, write Dept. A&F, Nitrogen Division, Allied Chemical & Dye Corp., 40 Rector St., New York 6, N. Y.

Valve for Spray Rigs Designed to Prevent Clogging, Plugging

Spraying Systems Co. announces 6815 pressure relief valve for use on farm spraying equipment of all types. Because of the large internal valve area, full flow from supply lines up to 0.75 in. at normal pressures can be handled. Because of special inner rib construction of the valve body, full flow of liquid around the shut-off piston takes place, preventing the "salting out" of such chemicals as fertilizer solutions. As a result, plugging or clogging of the valve is prevented. The piston assembly, mounted within the valve chamber, contains no gaskets that might swell in the presence of chemicals and retard piston action.

Another feature of this valve design is the double spring—a higher tension spring for higher pressures and a second lower tension spring said to give accurate control at lower pressures.

The valves are supplied in brass or aluminum, with stainless steel stem and springs. For complete information, write for data sheet No. 6815 to Dept. A&F, Spraying Systems Co., 3201 Randolph St., Bellwood, Ill.

Food Colors

Five food colors, four of which are particularly applicable for use in processed cheese, have been introduced. No.'s 1, 3, 4, and 5, the cheese colors, also can be used in ice cream, shortening, bakery goods, and other foods requiring a butter-yellow to orange-red color. The No. 2 color is useful primarily in high fat products.

Write: Dept. A&F, Marschall Dairy Laboratory, Inc., 14 Proudfit St., Madison 3, Wis.

Corn Sirup Can Replace Adjuncts 100%

A highly fermentable corn sirup is said to make it possible to replace up to 100% of adjuncts and at the same time to produce a finished beer of superior taste, color, clarity, and stability.

Designated Rex Brand No. 1621, the sirup is manufactured by an enzyme conversion process and refined by ion exchange. According to Corn Products, this sirup contains a percentage of fermentable extract closely approximating that of average wort.

Advantages derived from substituting sirups for adjuncts are said to be a 20 to 30% increase in production and a reduction in handling time and costs through elimination of unloading, weighing, and conveying of dry adjuncts.

Detailed information is available from Dept. A&F, Corn Products Sales Co., Brewing Materials, 17 Battery Place, New York 4, N. Y.

Seed Treating Equipment

A seed treater capable of treating seeds chemically at speeds up to 18 tons per hour is being made by O. W. Kromer Co. The equipment applies either powder or liquid chemicals. It is said to be accurate at rates from 1 oz. of chemical per 100 lb. of seed up to 10 lb. of chemical per 100 lb. of seed. The unit is equipped with its own dust-collecting system, which returns dust to the process, and is designed to permit a wetting agent to be applied to the seed prior to the application of the protectant.

Further information can be obtained from Dept. A&F, O. W. Kromer Co., 1120 Emerson Ave. North, Minneapolis, Minn.