



## "GUNTING" with Super ADACHROME-CAST

Trademark "Gunning" courtesy Cement Gun Co., Allentown, Pa.

## SAVES OUTAGE TIME and MONEY

Use SUPER ADACHROME-CAST to gunite your stud tube water walls—fine-grained to penetrate the small apertures between studs—packs to a dense mass when shot. One user reports SUPER ADACHROME-CAST lasted twice as long and took but one-third the time to apply as compared with a plastic chrome ore installation. Excellent for coating brickwork when free of slag.

Years, FREE for the asking... see illustrated, detailed Bulletin on Super ADACHROME-CAST.

**BOTFIELD**  
REFRACTORIES CO.

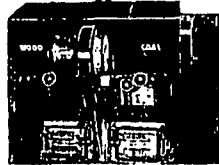
724 S. Seawall St., Philadelphia 47, Pa.  
In Canada, Canadian Botfield Refractories Co., Ltd., 171 Eastern Avenue, Toronto.

## FYR-FEEDER

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Increases  
Boiler  
Capacity  
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Reduces  
Fuel  
Costs



FYR-FEEDER quickly pays for itself

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WRITE for an engineer to make Savings Estimate  
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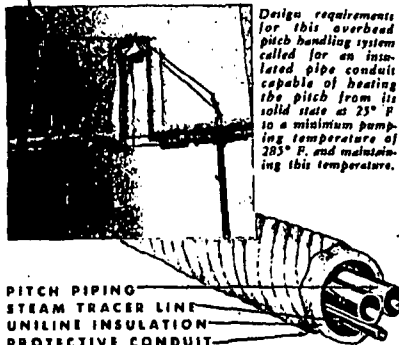
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## PIPING VISCOUS MATERIALS?

HERE'S HOW A Large Primary Aluminum Producer Solved Pitch Flow Problem with RIC-WIL UNILINE INSULATED PIPING



Design requirements for this overhead pitch handling system called for an insulated pipe conduit capable of heating the pitch from its solid state at 25° F. to a minimum pumping temperature of 205° F. and maintaining this temperature.

PITCH PIPING  
STEAM TRACER LINE  
UNILINE INSULATION  
PROTECTIVE CONDUIT

THE temperatures required are efficiently maintained in Ric-wil's Uniline System. Pitch piping is nested with a steam tracer line inside an insulation liner which insulates the pipes from the exterior but not from each other. The emission of heat from the steam tracer keeps the pitch in a free-flowing liquid state and at the desired temperature. The entire system is housed within a protective conduit of 16-gauge Armco ingot iron, helically-corrugated and hot-dipped galvanized.

Ric-wil Uniline Systems are also used to maintain proper flow in piping oil, asphalt, molasses, and many other viscous materials—underground or overhead. Pipe lines subject to corrosive conditions may be coated with Ric-wilite, a baked-on phenolic resin having outstanding corrosion resistance and durability.

Scientific design of Ric-wil Insulated Piping, completely prefabricated with all accessories required, assures high thermal efficiency and speedy, low-cost installation.

• Write for our latest catalog, or contact us for full technical information on Ric-wil as applied to your piping problem.



**THE RIC-WIL COMPANY**

Mfgs. Insulated Piping and Conduit Systems  
UNION COMMERCIAL BLDG. • CLEVELAND, OHIO

LEADERS IN INSULATED PIPING PROTECTION

# FREE



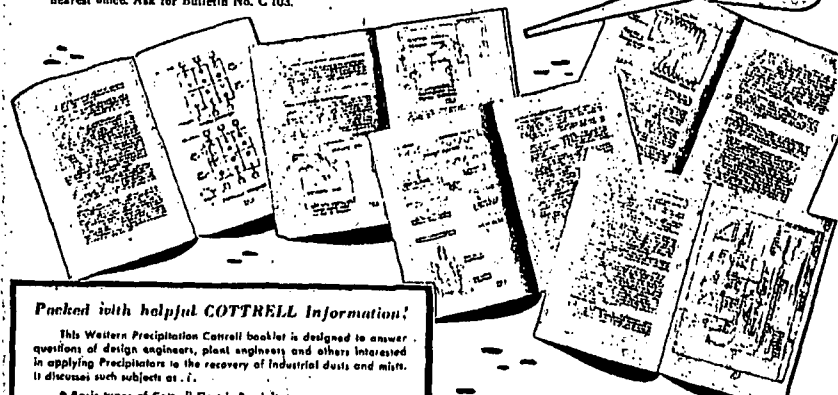
From Western Precipitation—the organization that pioneered the commercial application of Cottrell Precipitation...

IF YOU ARE ENGAGED in any phase of industry where the recovery of dusts, fumes, fly ash, mists, fogs or other suspensions from gases is a problem, you will find this booklet on the COTTRELL Electrical Precipitator helpful and informative.

Western Precipitation pioneered and installed the first commercial application of the well-known COTTRELL Electric Precipitator—Dr. Cottrell, the inventor, being a member of the company. And for more than 40 years Western Precipitation has consistently led in developing new COTTRELL advancements and techniques for recovering suspensions from gases, both wet and dry.

This 28 page booklet summarizes many of the basic facts you should know about modern COTTRELL Precipitators—the various types available, how they operate, principal types of electrode systems and rectifiers, shell constructions, etc. As long as the supply lasts, a free copy will be sent you on request to our nearest office. Ask for Bulletin No. C103.

28 PAGES  
of helpful facts to  
know about  
**COTTRELL**  
ELECTRICAL  
PRECIPITATORS



### Packed with helpful COTTRELL Information!

This Western Precipitation Cottrell booklet is designed to answer questions of design engineers, plant engineers and others interested in applying Precipitators to the recovery of industrial dusts and mists. It discusses such subjects as:

- Basic types of Cottrell Electric Precipitators.
- Principal parts of a Cottrell Precipitator.
- Mechanical and Electronic Rectifiers.
- Various types of Collecting Electrodes (rod curtains, corrugated plates, dual plates, pocket electrodes, etc.).
- Removal of Collected Material.
- Factors in Shell Construction (steel, concrete, brick, etc.).
- Operating Efficiency and the Effect of Various Factors on Performance.

...and many other basic Cottrell facts. Write for your free copy of Bulletin C103 today while supplies are adequate!

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...in all parts of the U.S.A. and foreign countries.

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