

FILE NAME: CERAMICS (CER)

DATE: 1959 July 20

DOC#: CER054

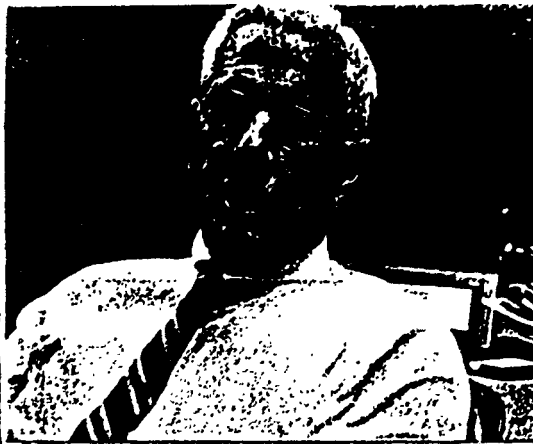
DOCUMENT DESCRIPTION: Excerpt from Trade Journal - The  
Metalworking Weekly - Steel

JULY 20, 1959

# STEEL

The  
Metalworking Weekly

A PENTON PUBLICATION



Lincoln Electric's James F. Lincoln



We need greater confidence



Lower tests to cut arc weld costs

Conductive about the role of noise

Testing of welding to improve

More than 100,000 tons of

Steel to be used in construction

Steel to be used in construction

What Steel Labor Developments Mean  
To Workers, Consumers, Economy

Steelmaker Offers Application Aid

Press Order Rate Turns up Again

SUB: What Labor, Management Want

Ohio Valley to Be Midwest's Ruhr?

Special Machine Knowhow Aids  
Builder on Reactor Job



COMPLETE CONTENTS

TURN PAGE

METALWORKING OUTLINE

PAGE

## High Pressure Unit Used to Test Casing

TOP QUALITY oil well casing is insured by a collapse resistance tester at the Aliquippa, Pa., Works of Jones & Laughlin Steel Corp.

The high pressure unit was supplied by Ritter Engineering Co., Pittsburgh.

- It includes two pressure vessels. A wide range of casing sizes is handled.

One vessel is used for testing tubing  $4\frac{1}{2}$  to  $6\frac{5}{8}$  in. OD, the other for casing 7 to  $10\frac{3}{4}$  in. OD.

Test samples, cut from production heats, are 14 in. long for smaller diameter casing, 21 in. for the larger.

Because of the high pressures used in the tests, several safety features are built into the equipment. Examples: Tests are done by remote control—outside the equipment enclosure.

Collapse pressures up to 25,000 psi are applied. So customers are assured that casing meets or exceeds published specifications, says E. A. Booth, manager, tubular products.

- Threaded covers and rubber seals prevent pressure losses.

A rubber seal is placed at one end of the sample before it's inserted in the pressure vessel. A second seal is set on the other end, and the vessel cover is threaded into place. Hydraulic oil is forced into the vessel by a pump and an intensifier.



OIL WELL CASING  
enters collapse test chamber



## Quick Fastening Insulation Cuts Installation Time

It has wire mesh face with projecting wires on one end. You just wrap and hook. Time savings can be as high as 25 per cent. It will withstand temperatures up to 1200° F

QUICK FASTENING pipe insulation cut installation time 25 per cent at the new No. 3 cold strip mill of Inland Steel Co., Chicago. The piping is in the tandem mill basement.

The insulation is a mineral or slag wool, flexible blanket type (No. 101) made by Baldwin-Hill Co., Trenton, N. J. Tie wires are built in.

The material is less expensive than other types, says the insulation contractor, Jaymar-Olmen Co., Melrose Park, Ill.

At Inland Steel, a 2 in. thickness is wrapped around steam traced oil and water lines, coke oven gas lines, and service water lines over 18 in. in diameter. Some piping is as large as 36 in. in diameter.

The insulated lines were finished with two layers of a flexible vapor barrier material and paint to provide an attractive appearance.

- Properties—It can be fitted snugly, doesn't pick up moisture, and is vermin resistant. The material is suitable for temperatures up to 1200° F. It was selected at Inland Steel because it provides the specified 7 lb per cubic foot minimum density at the exact thickness desired.

The material has a welded metal facing of galvanized wire mesh (16 gage). No other materials are required to fasten the flexible covering around the pipe.

Seven lead wires project from one end of each precut length. When the insulation is wrapped around the pipe, lead wires are hooked under the stay wire on the meeting edge of the blanket. The insulation is pulled tight and the projecting wires are bent up and over the stay wire. The ends are pushed down into the material to prevent them from protruding.