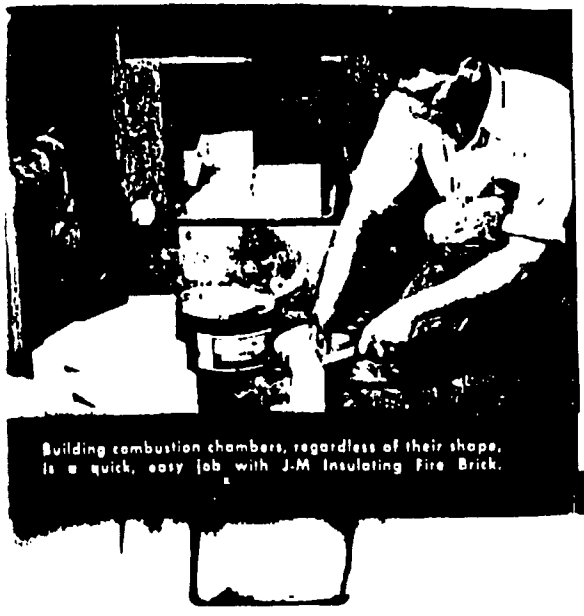
J-M INSULATING FIRE BRICK CUTS FUEL USE UP TO 10%

Can be installed quickly and easily — regardless of size or shape of firebox

YOU can benefit in many ways with a firebox built of Johns Manville Insulating Fire Brick. First, it brings fuel savings of as much as 10% according to accurate laboratory tests and actual installations. In these tests, domestic oil burners with combustion chambers built of J-M Insulating Fire Brick were tested for fuel consumption against identical units equipped with dense fireclay brick. The fuel saving is made possible by J-M Insulating Fire Brick because of its low heat capacity and high insulating value which *get the combustion chamber hotter in faster time, thus eliminating much wasteful burning of fuel.* And, to this feature, too, may be attributed its ability to retard the formation of soot, smoke and odor. Also, because of its sound-deadening qualities, it makes possible quieter burner operation. In addition, its faster cooling action checks carbon formation on burner tips.



Building combustion chambers, regardless of their shape, is a quick, easy job with J-M Insulating Fire Brick.

THREE TYPES OF J-M INSULATING FIRE BRICK

JM-20 Insulating Fire Brick for use to 2000F. Weight per brick 2.1 lbs. JM-23 for use to 2300F. Weight per brick 2.5 lbs. JM-26 for use to 2600F. Weight per brick 2.8 lbs.

Many installers prefer JM-26 Insulating Fire Brick for its higher temperature limit and added strength. These features permit it to serve a wider application range.

(Follow construction specifications as recommended by burner manufacturer, for size and shape of firebox.)

EASILY AND QUICKLY INSTALLED

Building fireboxes of J-M Insulating Fire Brick is a quick and simple job. The brick are easily cut with a hack saw to form any shape chamber - round, square, oval, pear, etc. Because of their light weight, they are easily handled. The brick come in convenient cartons of 20 brick each — cartons which can be carried with ease to the job.

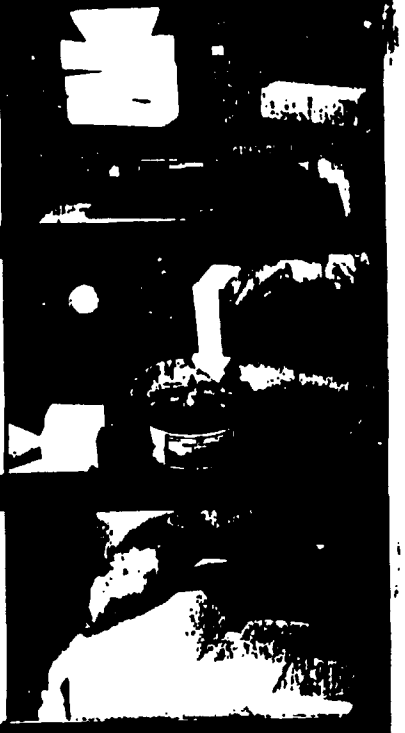
FIRM TIGHT JOINTS

Bonding presents no problem with Insulating Fire Brick . . . just dip the brick into JM-1626 Bonding Cement and rub into place. JM-1626, a specially developed air-setting mortar, is furnished ready-mixed for immediate use in 10, 20, 100 and 200 lb. containers. Require 200 lbs. of cement per 1000 brick.

LIGHT, EASY TO HANDLE!
Johns Manville Insulating Fire Brick weigh only about one quarter as much as dense fireclay brick.

FOR BONDING:
Johns Manville 1626 Cement — Here is a ready-mixed air-setting cement specially developed for laying J-M Insulating Fire Brick.

FOR FILLING IN:
J-M Dobfill — a lightweight asbestos material. Won't expand or corrode furnace. For surface finishing when mixed with water. Comes in 50-lb bags. Weight approx. 20 lbs. to Cu. Ft.

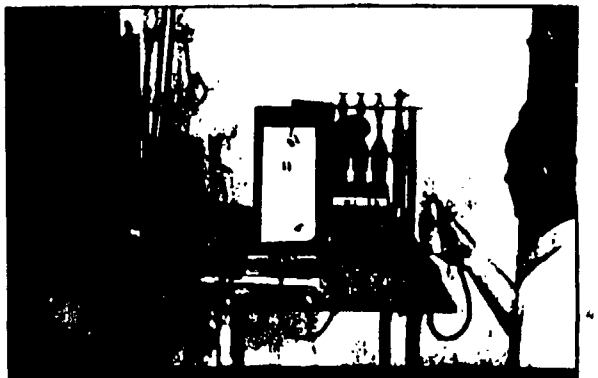


DEFENDANT'S EXHIBIT
DF-140

PLAINTIFF'S EXHIBIT
K-1569

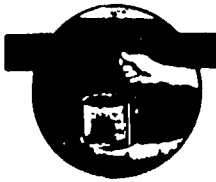
AN INSULATING FIRE BRICK DEVELOPMENT OF THE JOHNS-MANVILLE RESEARCH LABORATORY

90 years of insulation experience stand behind this oil burner firebox insulation. Extensive laboratory tests have proved that Johns-Manville Insulating Fire Brick cuts fuel oil use by as much as 10%. In addition, this insulating fire brick, originally developed for high-temperature industrial furnaces, brings a number of other operating advantages as described on the center pages of this folder.



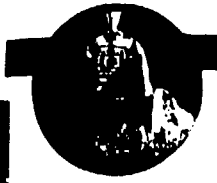
Tests with the Orsat Gas Flue Analyzer prove that fireboxes built with J-M Insulating Fire Brick give higher CO_2 ratings.

Other J-M REFRACTORY PRODUCTS for Oil Burner Use



J-M FIREITE

An easily worked, ready-mixed asbestos furnace cement for sealing against air and gas leakage. Adheres firmly to castings, sheet metal, or any other clean surface. Air sets without heat and is odorless. Comes in 5, 10, 25, 50 and 100 lb. containers.



J-M FIRECRETE

Standard Firecrete is an air-setting refractory for poured linings. Especially recommended for hearths of rotary burners and for precast linings or shapes for boiler burner units, water heaters, burner heads. Temperature limit 2400 F.

Other types: L.W. Firecrete (2400 F.) and H.T. Firecrete (2800 F.).

JOHNS-MANVILLE • 22 EAST 40th STREET • NEW YORK 16, N. Y.

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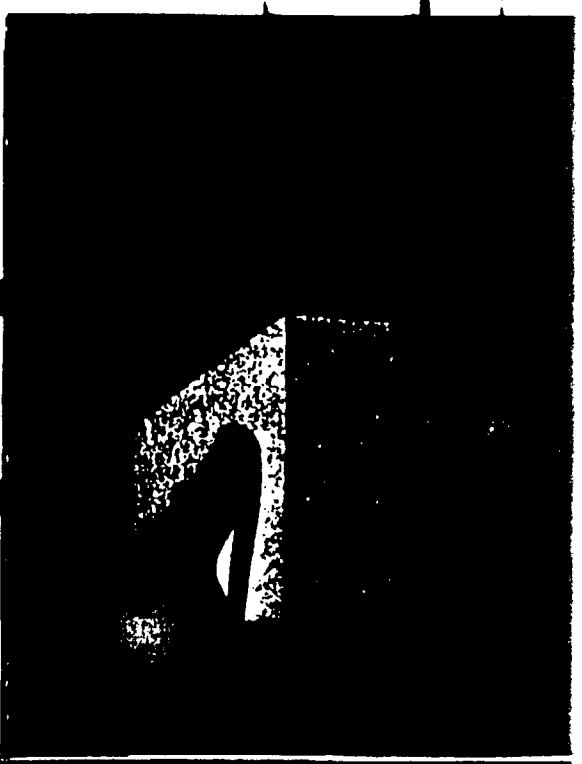

Johns-Manville Insulating Fire Brick

FOR OIL BURNER FIREBOXES