

Publications of the  
DEPARTMENT OF COMMERCE  
BUREAU OF STANDARDS

Letter  
Circular  
LC 165

WASHINGTON, D.C.

April 28, 1925.

PUBLICATIONS RELATING TO FIRE RESISTANCE OF MATERIALS  
AND FIRE PREVENTION

The official publications listed can be obtained from the Superintendent of Documents, Washington, D. C., for the given price. A limited number can be obtained free from the Bureau of Standards by cooperating organizations. Copies of letter circulars and reprints of technical articles can be obtained free as far as copies are available, by addressing the Bureau of Standards, Washington, D.C., attention Division III-6. No reprints are available of articles marked \*.

Circular 75 - Safety for the Household - Price \$0.75.

Circular 134 - U.S. Government Specifications for Fire Extinguishing Liquid - Price \$0.05.

Technologic Paper 130 - Heat Insulating Properties of Building Materials - Price \$0.10.

Technologic Paper 184 - Fire Tests of Building Columns - Price \$0.75.

Technologic Paper 272 - Fire Resistance of Concrete Columns - Price \$0.25.

Lessons from Fire Tests\* - Clayworker - June 1922.

Fire Tests of Concrete Columns - Proceedings of American Concrete Institute - 1918\*, 1919 and 1920.

Fire Tests of Brick Walls - American Architect - Sept. 26 and Oct. 10, 1923.

Fire Tests of Brick Walls\* - Brick & Clay Record, Oct. 30, 1923; Clayworker, Nov. 1923; Fire Protection, Nov. 1923; Quarterly, National Fire Protection Association, Jan. 1924; Safety Engineering, Dec. 1923.

Fire Tests of Theatre Proscenium Curtains\* - Quarterly National Fire Protection Association, April 1925.

Investigation of Cause of U.S. Treasury Roof Fire - Quarterly National Fire Protection Association - January 1923.

Fire Tests of Theatre Proscenium Curtains\* - Safety Engineering - February 1925.

THE UNIVERSITY OF CHICAGO  
DIVISION OF THE PHYSICAL SCIENCES  
DEPARTMENT OF CHEMISTRY

1958-1959  
1958-1959

RESEARCH REPORTS  
CHEMISTRY

1. The first part of the report deals with the synthesis of a new class of compounds. The reaction of the starting material with the reagent under the conditions described yields a product which is characterized by its melting point and its infrared spectrum. The structure of the product is proposed to be that of a substituted derivative of the parent compound.

2. The second part of the report describes the study of the reaction of the same starting material with a different reagent. The reaction proceeds through a different mechanism, as indicated by the kinetic data and the structure of the product. The results suggest that the reaction is reversible and that the product is in equilibrium with the starting material.

3. The third part of the report discusses the properties of the products obtained in the previous sections. The melting points and infrared spectra of the products are compared with those of known compounds. The results show that the products are indeed new compounds and that they have unique properties. The study of these compounds is of interest because of their potential applications in the field of organic chemistry.

The Fire Resistance of Concrete Protected Building Columns (Paper before National Crushed Stone Association)\* - Rock Products, March, 1923.

Methods for Making Absorption Determinations for Hollow Building Tile - Journal American Ceramic Society - November 1922.

Capping for Compression Specimens - Journal American Ceramic Society - May 1923.

Effect of Grog Addition on Fire Resistance of Hollow Building Tile - Journal American Ceramic Society - June 1922.

Strength, Absorption and Freezing Resistance of Hollow Building Tile - Journal American Ceramic Society - March 1924.

Factors Affecting Brick Masonry Strength - Proceedings American Society for Testing Materials - Vol. 24, p. 909.

Portable Equipment for Transverse Tests of Brick\* - Clayworker - February 1925.

Letter Circular 29 - Ideal Wall Construction.

Letter Circular 70 - The Safety of Portable Motion Picture Projectors.

Letter Circular 71 - Tentative Classification of Building Construction with Reference to Fire Resistance.

Letter Circular 113 - Fire Resistance of Hollow Tile.

Letter Circular 137 - Safety of Theatre Proscenium Curtains.

U.S. Government Specification No. 60 for Insulated Safes and Cabinets.

