May 17, 1950

PORCELAIN & POTTERY

Publications by members of the staff of the National Bureau of Standards, with a list of Federal Specifications and Standard Samples.

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GENERAL INFORMATION

Some of the publications in this list have appeared in the regular series of publications of the Bureau and others in various scientific and technical journals. Unless specifically stated, papers are not obtainable from the National Bureau of Standards.

When the price is stated, the publication can be purchased from the Superintendent of Documents, Government Printing Office, Washington 25, D.C. The prices quoted are for delivery to addresses in the United States and its territories and possessions and in certain countries which extend the franking privilege. In the case of all other countries, one-third the cost of the publication should be added to cover postage. Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for $1.00 and good until used), or by check or money order payable to the "Superintendent of Documents, Government Printing Office" and sent to him with order. Letter Circulars are obtainable without charge, from the Bureau. Publications marked "OP" are out of print but, in general, may be consulted at technical libraries.
For papers in other scientific or technical journals, the name of the journal or of the organization publishing the article is given in abbreviated form with the volume number (underscored), page, and year of publication, in the order named. In general, the Bureau cannot supply copies of these journals, or reprints from them, and it is unable to furnish information as to the availability or price. However, in a few cases (publications preceded by a single asterisk (*)) a very limited supply of reprints is available for distribution, and copies will be sent free upon request to the Bureau. They, too, can usually be consulted at technical libraries.

Serial letters are used to designate the several series of Bureau publications:

T = "Technologic Paper." T1 to T370. This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

RP = "Research Paper." These are reprints of articles appearing in the "Bureau of Standards Journal of Research" and the "Journal of Research of the National Bureau of Standards," the latter being the title of the periodical since July 1934 (volume 13; number 1).

C = "Circular."

CS = "Commercial Standard."

R = "Simplified Practice Recommendations."

Circular C460, and supplements, the complete list of the Bureau's publications (1901-1947), is sold by the Superintendent of Documents for 75¢. Announcement of new publications is made each month in the Technical News Bulletin which is obtainable by subscription at $1.00 a year in the United States, Canada, Cuba, Mexico, Newfoundland, and Republic of Panama; other countries at $1.35.

PART 1 - TECHNOLOGIC PAPERS


## PART 1 — TECHNOLOGIC PAPERS (Cont'd)

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## PART 2 — RESEARCH PAPERS

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<td>RP472</td>
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<td>RP483</td>
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</table>

The passage of gas through the walls of pyrometer protection tubes at high temperatures. William F. Roeser. BS J. Research 7, 485 (1931).


The thermal expansion of some silicates of elements in Group II of the periodic system. R.F. Geller and H. Insley. BS J. Research 9, 36 (1932).


A study of some ceramic bodies of low absorption maturing at temperatures below 1000°C. R.F. Geller and D.N. Evans. BS J. Research 2, 473 (1932); also Ceramic Industry (59 East Van Buren Street, Chicago, Ill.) 20 (1933).


PART 2 - RESEARCH PAPERS (Cont'd)

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<td>RP1776</td>
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Length changes of whiteware clays and bodies during initial heating, with supplementary data on mica. R.F. Geller and E.N. Bunting. J. Research NBS 25, 15(1940).


X-ray studies of compounds in the system PbO-3203 and K₂O-PbO-SiO₂. H.F. McMurdie. J. Research NBS 26, 429(1941).

A resistor furnace, with some preliminary results up to 2000°C. R.F. Geller. J. Research NBS 27, 555(1941).


PART 2 - RESEARCH PAPERS (Cont'd)

Properties of barium-magnesium titanate
dielectrics. G.R. Shelton, A.S. Creamer, and
E.N. Bunting. J. Research NBS 41, 17(1948).

Properties of calcium-barium titanate
dielectrics. E.N. Bunting, G.R. Shelton and

Some physical properties of porcelains in the
systems magnesia-beryllia-zirconia and magnesia-
beryllia-thoria and their phase relations. S.M.
Lang, L.H. Maxwell, and R.F. Geller. J. Research
NBS 42, 429(1949).

PART 3 - CIRCULARS

Recommended specification for ceramic whiting.
Cir. BS, C152(1923).

Ceramic properties of some white-burning clays
of the eastern United States. Cir. BS, C325(1927).

PART 4 - COMMERCIAL STANDARDS

Feldspar
Colors for sanitary ware.
Vitreous china plumbing fixtures.
Earthenware (vitreous glazed) plumbing fixtures.

PART 5 - SIMPLIFIED PRACTICE RECOMMENDATIONS

Hotel chinaware
Cafeteria and restaurant chinaware
Dining-car chinaware
Hospital chinaware
Clay tiles for floors and walls
Hospital plumbing fixtures

PART 6 - FEDERAL SPECIFICATIONS

(Issued by the Federal Specifications Board, Washington, D. C.,
and obtainable from the Superintendent of Documents, Government
Printing Office, Washington 25, D. C., at the prices stated.)

Vitrified chinaware
Plumbing fixtures
Tile ceramic; floor, wall and trimmers
Spark plugs
PART 7 - OUTSIDE PUBLICATIONS

(List of papers which have appeared in the Transactions or the Journal of the American Ceramic Society, 2525 N. High Street, Columbus 2, Ohio.)


PART 7 - OUTSIDE PUBLICATIONS (Cont'd)


PART 7 - OUTSIDE PUBLICATIONS (Cont'd)


Papers appearing in publications other than the Bulletin and the Journal of the American Ceramic Society


Complacency. R.F. Geller. Ceramic Age 41, 6, 186 (1943).

Progress report on strength and creep of special ceramic bodies in tension at elevated temperatures. R.F. Geller and M. D. Burdick. National Advisory Committee for Aeronautics. ARR No. 6D24 (June 1946).

STANDARD SAMPLES

Standard samples of certain materials which are recommended for control work may be obtained from the National Bureau of Standards by prepayment of the indicated price. Such samples were prepared for checking the accuracy of methods of analysis, and those of particular interest to the ceramic industry are listed below. The Supplement to Circular 0398, which can be obtained from this Bureau without charge, contains a complete list of our standard samples.

<table>
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<tr>
<th>Standard Sample Number</th>
<th>Name</th>
<th>Constituents determined or intended use</th>
<th>Weight of sample in grams</th>
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<td>76</td>
<td>Burned refractory (40% Al2O3)</td>
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<td>80</td>
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