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\text { May } 17,1950
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## PORCELAIN \& POTTERY

Publications by members of the staff of the Nationel Bureau of Standards, with a list of Federal Specifications and Standard Samples.
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## GEINERAL INFORMATION

Some of the publications in this list heve 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 Officel 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:

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T = "Technologic Paper." Tl to T370. This series was
        superseded by the "Bureau of Standards Journal of
        Research" in l928.
RP = "Research Paper." These, ore reprints of articles
        appearing in' the "'Bureau' of Standerds Journal of
        Research" and the "Journal of Research of tine
        National Bureau of Standards," the latter being
        the title of the periodical since July 1934
        (volume 13', number 1).
    C= "Circular."
    CS = "Commercial Stándara."
    R = "Simplified Practice Recommendations."
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Circular C460, and supplements, the complete list of the Bureau's publications (1901-1947), is sold by the Superintendent of Documents for 75 7 . 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

Viscosity of porcelain bodies, A.V.
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Bleininger and Paul Teetor. Tech. Pap. BS, T30(1913).

Some leadless boro-silicate glazes matur-
T31

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Use of sodium selts in the purification of clays and in the casting process. A. . V. Bleininger. Tech. Pap. BS, T51 (1915).

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T5I

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## PART 4 - COMMEPCIAL STANDARDS

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

CS23-30
OP
CS30-31 OP
CS20-49 . 15
CSIII-43. 05

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\text { PART } 5 \text { - SIMPLIFIED PRACTICE RECOMEIDATIONS }
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Hotel chinarare
Cafeteria and restaurant chinaware
Dining-car chinaware
Ho spital chinaware
Clay tiles for floors and walls
Hospital plumbing fixtures

R 5
R33 OP
R39 . 05
$R 40 \quad .05$
R61-44 . 10
R106-41 . 05

## PART 6 - FEDERAL SPECIFICATIONS

(Issued by the Federal Specificatịons Board, Washington, D. C., and obtainable from the Superintendent of Docunents, Government Printing Office, Washington 25, D. C., at the prices stated.)
Vitrified chinaware
M-C-301a . 10
Plumbing fixtures
Tile ceramic; floor, wall and trimmers
Wi-P-54I . 10
Spark plugs
SS-T-308
.05
WP-506a . 05

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## $\underline{S} \underline{I} \underline{A} \underline{A} \underline{A} \underline{S} \underline{A} \underline{M} \underline{\underline{P} E S}$

Standard semples 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 perticular interest to the ceramic industry are listed below. The Supplement to Circular C398, which can be obtained from this Bureau without charge, contains a complete list of our standard samples.

| Standard <br> Sample <br> ivumber | Name | Constituents determined or intended use | Weight <br> sample <br> grams | $\begin{aligned} & \text { of } \\ & \text { in } \\ & \quad \text { Price } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| 12 | Limestone, argillaceous | Complete analysis | 50 | \$2.00 |
| 391 | Benzoic acid | Acidimetric and | 30 | 2.00 |
| 40 e | Sodium oxalate | calorimetric values Oxidimetric value | 60 | 2.00 |
| 69 | Bauxite | Complete analysis | 60 | 2.00 |
| 70 | Feldspar, potash | I | 40 | 2.00 |
| 76 | Burned refractory $\left(40 \% \mathrm{Al}_{2} \mathrm{O} 3\right)$ | 11 | 60 | 2.00 |
| 77 | Burned refractory ( $60 \% \mathrm{Al}_{2} \mathrm{O}_{3}$ ) | 11 | 60 | 2.00 |
| 78 | Burned refractory $\left(70 \% \mathrm{Al}_{2} \mathrm{O}_{3}\right)$ | 11 | 60 | 2.00 |
| 79 | Fluorspar | 110 | 60 | 2.00 |
| 80 | Glass, sode-lime | " ${ }^{\prime \prime}$ | 45 | 2.00 |
| 81 | Glass sand | $\begin{aligned} & \mathrm{Fe}_{2} \mathrm{O}_{3}, \mathrm{Al}_{2} \mathrm{O}_{3}, \mathrm{TiO}_{2}, \\ & \mathrm{ZrO}_{2}, \mathrm{CaO}, \mathrm{MgO} \end{aligned}$ | 60 | 2.00 |
| 83 a | Arsenic trioxide | Oxidimetric value | 75 | 2.00 |
| 84 c | Acid potassium phthalate | Acidimetric value | 60 | 3.00 |
| 88 | İmestone, dolomitic | Complete analysis | 50 | 2.00 |
| 89 | Glass, lead-barium | II 1 | 45 | 2.00 |
| 91 | Glass; opal | 11 \\| | 45 | 2.00 |
| 92 | Glass, low boron | $\mathrm{B}_{2} 03$ only | 45 | 2.00 |
| 93 | Glass, high boron | Complete analysis | 45 | 2.00 |
| 97 | Clay, flint | 11 | 60 | 2.00 |
| 98 | Clay, plastic | II | 60 | 2.00 |
| 99 | Feldspar, soda | "1 | 40 | 2.00 |
| 102 | Silica brick | " 1 | 60 | 2.00 |
| 103 | Chrome refractory | II " | 60 | 2.00 |
| 104 | Burned magnesite | " | 60 | 2.00 |
| 112 | Silicon carbide | " | 85 | 2.00 |
| 154 | Titanium dioxide | $\mathrm{TiO}_{2}$ | 40 | 2.00 |

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