

APPROVED AS
AMERICAN STANDARD
BY THE AMERICAN STANDARDS ASSOCIATION
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Standard Specifications for GYPSUM POTTERY PLASTER¹



A.S.T.M. Designation: C 60 - 40

ADOPTED, 1929; REVISED, 1930, 1940.²

This Standard of the American Society for Testing Materials is issued under the fixed designation C 60; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

Scope

1. These specifications cover gypsum pottery plaster, a material consisting essentially of calcined gypsum for use in making pottery molds.

Composition

2. Gypsum pottery plaster shall contain not less than 90 per cent of calcined gypsum ($\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$).

Time of Setting

3. Gypsum pottery plaster shall set in not less than 20 nor more than 40 min.

Tensile Strength

4. Gypsum pottery plaster shall have a tensile strength of not less than 250 psi.

Fineness

5. Gypsum pottery plaster shall all pass a No. 30 (590-micron) sieve and not less than 94 per cent shall pass a No. 100 (149-micron) sieve.³

Sampling

6. At least 3 per cent of the packages shall be sampled and shall be so selected

as to be representative of the shipment. Samples shall be taken from both the surface and the center of each package so selected. The material so obtained shall be thoroughly mixed and reduced by quartering to provide not less than a 15-lb. sample for the laboratory.

Laboratory Samples

7. Each laboratory sample shall be placed immediately in an airtight container and shipped to the laboratory for test.

Methods of Testing

8. The chemical analysis and physical properties of gypsum pottery plaster shall be determined in accordance with the Standard Methods of Testing Gypsum and Gypsum Products (A.S.T.M. Designation: C 26) of the American Society for Testing Materials,⁴ except

¹ Under the standardization procedure of the Society, these specifications are under the jurisdiction of the A.S.T.M. Committee C-11 on Gypsum.

² Prior to adoption as standard, these specifications were published as tentative from 1926 to 1929, being revised in 1929.

³ Detailed requirements for these sieves are given in the Standard Specifications for Sieves for Testing Purposes (A.S.T.M. Designation: E 11) of the American Society for Testing Materials; see p. 989.

⁴ See p. 116.