



Designation: C 28/C 28M – 00

Standard Specification for Gypsum Plasters¹

This standard is issued under the fixed designation C 28/C 28M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers four gypsum plasters; gypsum mill-mixed plaster, gypsum neat plaster, gypsum wood fibered plaster and gypsum gauging plaster.

1.2 The values stated in either inch-pound or SI (metric) units are to be regarded separately as the standard. Within the text, the SI units are shown in brackets. The values stated in each system shall be used independently of the other. Values from the two systems shall not be combined. This paragraph does not apply to the appendix.

1.3 The text of this standard references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

1.4 The following safety hazards caveat pertains only to the test methods described in the appendix to this specification. *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- C 11 Terminology Relating to Gypsum and Related Building Materials and Systems²
- C 22 Specification for Gypsum²
- C 35 Specification for Inorganic Aggregates for Use in Gypsum Plaster²
- C 471M Test Methods for Chemical Analysis of Gypsum and Gypsum Products²
- C 472 Test Methods for Physical Testing of Gypsum, Gypsum Plasters, and Gypsum Concrete²
- C 778 Specification for Standard Sand²

¹ This specification is under the jurisdiction of ASTM Committee C11 on Gypsum and Related Building Materials and Systems and is the direct responsibility of Subcommittee C11.01 on Specifications and Test Methods for Gypsum Products.

Current edition approved May 10, 2000. Published July 2000. Originally published as C 28 – 20 T. Last previous edition C 28 – 96 ϵ ¹.

² Annual Book of ASTM Standards, Vol 04.01.

E 11 Specification for Wire-Cloth and Sieves for Testing Purposes³

3. Terminology

3.1 *Definitions*—Definitions shall be in accordance with Terminology C 11.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *gypsum gauging plaster for finish coat, n*—a calcined gypsum plaster designed to be mixed with lime putty for the finish coat.

3.2.2 *gypsum neat plaster, n*—calcined gypsum mixed at the mill with other ingredients to control working quality and setting time.

3.2.2.1 *Discussion*—Neat plaster is either fibered or unfibered. The addition of aggregate is required on the job.

3.2.3 *gypsum mill-mixed plaster, n*—calcined gypsum plaster, mixed at the mill with a mineral aggregate, designed to function as a base coat to receive various finish coats.

3.2.3.1 *Discussion*—Other materials are not prohibited from being added to control setting time and other desirable working properties.

3.2.4 *gypsum wood-fibered plaster, n*—A calcined gypsum plaster in which wood fiber is used as an aggregate.

4. Materials

4.1 *Calcined Gypsum*—Calcined gypsum shall be manufactured from gypsum meeting the requirements of Specification C 22.

4.2 *Vermiculite Aggregate*, Specification C 35.

4.3 *Perlite Aggregate*, Specification C 35.

4.4 *Sand Aggregate*, Specification C 35.

4.5 *Ottawa Sand*, Specification C 778 for 20–30 sand.

4.6 *Wood Fiber*, non staining wood fiber.

5. Composition

5.1 When tested in accordance with Test Methods C 471M, calcined gypsum shall contain no less than 66.0 weight % $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$.

5.2 *Aggregate*—plasters shall contain a volume of aggregate not more than that shown in Table 1.

³ Annual Book of ASTM Standards, Vol 14.02.