



Designation: C 897 – 00

Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plasters¹

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1. Scope *

1.1 This specification covers natural or manufactured aggregate for use in job-mixed base and finish-coat full thickness portland cement, portland cement-lime and modified portland cement plasters.

1.2 The values stated in inch-pound units are to be regarded as the standard. The SI (metric) values given in parentheses are approximate and are provided for information purposes only.

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

2. Referenced Documents

2.1 ASTM Standards:

- C 11 Terminology Relating to Gypsum and Related Building Materials and Systems²
- C 40 Test Method for Organic Impurities in Fine Aggregates for Concrete³
- C 87 Test Method for Effect of Organic Impurities in Fine Aggregate on Strength of Mortar³
- C 88 Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate³
- C 117 Test Method for Material Finer than 75–Micrometre (No. 200) Sieve in Mineral Aggregates by Washing³
- C 123 Specification for Lightweight Pieces in Aggregate³
- C 125 Terminology Relating to Concrete and Concrete Aggregates³
- C 136 Test Method for Sieve Analysis of Fine and Coarse Aggregates³
- C 142 Test Method for Clay Lumps and Friable Particles in Aggregates³
- D 75 Practice for Sampling Aggregates⁴

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 C 11.02 on Specifications and Test Methods for Accessories and Related Products.

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² Annual Book of ASTM Standards, Vol 04.01.

³ Annual Book of ASTM Standards, Vol 04.02.

⁴ Annual Book of ASTM Standards, Vol 04.03.

3. Terminology

3.1 *Definitions*—Definitions used in this standard shall be in accordance with Terminologies C 11 and C 125.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *aggregate, n*—a granular material such as natural or manufactured sand used with a cementing medium to form plaster (stucco).

3.2.2 *manufactured sand*—the fine material resulting from the crushing and classification by screening, or otherwise, of rock, gravel, or blast furnace slag.

3.2.3 *natural sand*—the fine granular material resulting from the natural disintegration of rock.

4. Composition

4.1 *Deleterious Substances*—The amount of deleterious substances in aggregates, each determined on independent samples complying with the grading requirements of Section 6, shall not be more than the following:

Item	Maximum Permissible Weight, %
Friable particles	1.0
Light weight particles, floating on liquid having a specific gravity of 2.0	0.5

4.2 *Organic Impurities:*

4.2.1 The aggregate shall be free of injurious amounts of organic impurities. Except as herein provided, aggregates subjected to the test for Organic Impurities, Test Method C 40, and producing a color darker than the standard shall be rejected.

4.2.2 Aggregate failing the test for organic impurities may be used provided that, when tested for the effect of organic impurities on strength in accordance with Test Method C 87, the relative strength at 7 days is not less than 95 %.

5. Physical Properties

5.1 *Soundness* (see 7.1.7):

5.1.1 Except as herein provided, aggregate subjected to five cycles of the soundness test shall show a loss, when weighed in accordance with the grading of a sampling complying with the

*A Summary of Changes section appears at the end of this standard.