



Standard Specification for Strontium Chromate Pigment¹

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1. Scope

1.1 This specification covers the pigment commercially known as strontium chromate which is suitable for use in the manufacture of protective or decorative coatings.

2. Referenced Documents

2.1 ASTM Standards:

D 387 Test Method for Color and Strength of Color Pigments with a Mechanical Muller²

D 1208 Test Methods for Common Properties of Certain Pigments³

D 1845 Test Methods for Chemical Analysis of Strontium Chromate Pigment³

3. Composition and Properties

3.1 *Dry Pigment*—The pigment shall be commercially pure strontium chromate-free of extenders and organic material, except for materials introduced to improve those properties for which the pigment is used. The pigment shall conform to the following requirements:

	percent
Strontium as SrO, min	48
Chromium as CrO ₃ , min	47
Chloride as Cl, max	0.1
Sulfate as SO ₃ , max	0.2
Water content, max	0.2
Coarse particles (total residue retained on No. 325 (45- μ m) sieve), max	1.0

3.2 The mass color and character of the tint and tinting strength formed by a mixture with a white pigment shall be within mutually agreed upon limits of a standard acceptable to both the purchaser and the seller when tested in accordance with Test Method D 387.

4. Sampling

4.1 Two samples shall be taken at random from different packages from each lot, batch, day's pack, or other unit of production in a shipment. When no markings distinguishing between units of production appear, samples shall be taken from different packages in the ratio of two samples for each 5 tons (inch-pound or SI), except that for shipments of less than 10 000 lb two samples shall be taken. At the option of the purchaser, the samples may be tested separately or after blending in equal quantities the samples from the same production unit to form a composite sample.

5. Test Methods

5.1 Tests shall be conducted in accordance with the appropriate ASTM test methods. Test procedures not covered by ASTM test methods shall be mutually agreed upon between the purchaser and the seller.

5.1.1 *Chemical Analysis*—Test Methods D 1845.

5.1.2 *Water Content*—Test Methods D 1208.

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² *Annual Book of ASTM Standards*, Vol 06.01.

³ *Annual Book of ASTM Standards*, Vol 06.03.

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