



Standard Specification for Pure Toluidine Red Toner¹

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1. Scope

1.1 This specification covers the red pigment commercially known as pure toluidine red toner. The pigment may be purchased in the dry form or as a paste in oil.

2. Referenced Documents

2.1 ASTM Standards:

- D 185 Test Methods for Coarse Particles in Pigments, Pastes, and Paints²
- D 280 Test Methods for Hygroscopic Moisture (and Other Matter Volatile Under the Test Conditions) in Pigments²
- D 387 Test Method for Color and Strength of Color Pigments with a Mechanical Muller³
- D 970 Test Methods for Para Red and Toluidine Red Pigments²

3. Composition and Properties

3.1 *Dry Pigment*—The pigment shall consist of toluidine red toner (1-(2-nitro-*p*-tolylazo)-2-naphthol) with or without admixture with a small quantity of (1-(2-nitro-*p*-methoxyphenyl-azo)-2-naphthol). It shall be free of any substrate and shall conform to the following requirements:

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² *Annual Book of ASTM Standards*, Vol 06.03.

³ *Annual Book of ASTM Standards*, Vol 06.01.

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Ash, max, %	1.0
Moisture and other volatile matter, max, %	1.0
Coarse particles (total residue retained on a No. 325 (45-μm) sieve), max, %	1.0
Paranitraniline red	none
Solubility in chloroform	complete
Resistance to acids and alkalis	to pass test
Identity test	to pass test

3.2 The mass color and character of the tint and the 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.

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 test methods. Test procedures not covered by ASTM methods shall be mutually agreed upon between the purchaser and the seller.

5.2 *Coarse Particles*—Test Methods D 185.

5.3 *Moisture*—Test Methods D 280.

5.4 *Color and Tint*—Test Method D 387.

5.5 *Solubility*—Test Methods D 970.

5.6 *Identity*—Test Methods D 970.

5.7 *Ash*—Test Methods D 970.

6. Keywords

6.1 tint; tinting strength; toluidine; white pigment

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