



## H-3492A/H-3493A

# Organic Impurities Test Set

**Directions:** For use in the determination of organic impurities in sand used for making concrete (ASTM C40-04 and AASHTO T21-05)

Set Components:

Organic Color Plate—	H-3492A	1
Bottle, 12oz. Flint Glass with Cap—	H-3490A	6
Sodium Hydroxide 3%, 16oz—	H-3491	1
Directions		1

Procedure:

1. Collect a representative test sample of sand, weighing about one pound, by quartering or by the use of a sample splitter.
2. Fill one H-3490A (12oz.) bottle with a 4.5oz. volume of the sand sample to be treated.
3. Add the H-3491 (3% Sodium Hydroxide) to the bottle until the volume of the sand and liquid after shaking is 7 liquid ounces.
4. Cap the bottle, shake vigorously, and allow to stand for 24 hours.
5. Compare the color of the supernatant liquid above the sand with the H-3492 (Organic Color Plate). Make the color comparison by holding the Color Plate and the bottle close together and looking through them against a background that is substantially equal in color to the northern sky.

**NOTE:** This test method covers the procedure for and approximate determination of the presence of injurious organic compounds in natural sands, which are to be used in cement, mortar or concrete. The principal value for the test is to furnish a warning that further tests of the sand are necessary before they can be approved for use.

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