

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON

Certificate
of Surface Area Analysis of
PORTLAND CEMENT

No. 114g

Residue on No. 325 sieve, wet method 9.7 percent
Surface area (Wagner Turbidimeter) 1800 sq cm per gram
Surface area (Blaine Air-permeability
Apparatus) 3070 sq cm per gram

These values are to be used in calibrating the Wagner turbidimeter and Blaine fineness meter in accordance with the methods of Federal Specification SS-C-158b, except that the air-permeability tests shall be made at a porosity of 0.500.

For the Director



R. L. Blaine
Chief, Concreting Materials Section

Washington, D. C.
March 26, 1951

To open the vial, make a deep scratch with a file about 1/4 inch from the bottom of the vial, then heat the point of the file red hot and press the hot point against the scratch. This will cause a circumferential crack around the bottle; the bottom may be easily separated by prying with the fingers. The operation should be performed over a clean sheet of paper in order to recover any cement that spills.

The specific surface of cement decreases rapidly on being exposed to the air. Therefore, after opening the container, the sample must be protected from atmospheric moisture until the time of test. The sample must be used as soon as possible after opening - in any case within eight hours.

The sample should be fluffed in a 4- to 6- ounce bottle before being used.