

U. S. DEPARTMENT OF COMMERCE  
NATIONAL BUREAU OF STANDARDS  
WASHINGTON, D. C.

Certificate  
of Surface Area Analysis of

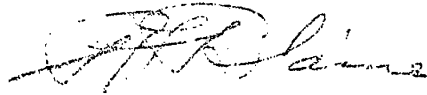
PORTLAND CEMENT

No. 114(i)

Residue on No. 325 sieve, wet method . . . . . 8.1 per cent  
Surface area (Wagner Turbidimeter) . . . . . 1870 sq. cm. per gram  
Surface area (Blaine Air-permeability Apparatus. . . . . 3100 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 the current issue of Federal Specification SS-C-158. 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.  
May 5, 1956

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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 to cause a circumferential crack around the vial. Remove the end of the vial carefully and remove any glass fragments which may have fallen into the sample.

The specific surface of cement changes 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 as described in the current issue of Federal Specification SS-C-158 before being used.