

Testing aggregates —

Part 103: Method for determination of particle size distribution —

Section 103.2 Sedimentation test

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- Association of Consulting Engineers
- Association of Consulting Scientists
- Association of Lightweight Aggregate Manufacturers
- Brick Development Association
- British Aggregate Construction Materials Industries
- British Cement Association
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- British Civil Engineering Test Equipment Manufacturers' Association
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- Society of Chemical Industry

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Foreword

This Section of BS 812, prepared under the direction of the Cement, Gypsum, Aggregates and Quarry Products Standards Committee, is a revision of 7.2 of BS 812-1:1975 which is withdrawn. BS 812-2 and BS 812-3 are also being revised and as each of the tests, or collection of related tests, is revised, it is intended to issue it as a separate Part or Section of this standard.

In the case of the test for the determination of clay, silt and dust in fine or coarse aggregate, major changes have been made to the procedures described in BS 812-1:1975. The decantation method for determining the amount of material passing a 75 μm test sieve complying with BS 410 is no longer included, as a procedure for determining this fraction is included in BS 812-103.1, originally published as BS 812-103. The field settling test has also been omitted because of difficulties in interpreting the results. This Section of BS 812 therefore deals only with a revision of the sedimentation test of 7.2.3 of BS 812-1:1975. Although the general principles of the method have been retained, more detail has been included and the procedure has been brought into line with the procedure for sedimentation described in BS 1377.

The terms “clay, silt and dust” which were used in the previous edition of BS 812 have not been retained as they have never been properly defined; the particles are classified solely on the basis of their equivalent particle diameters. The classification is thus solely one of particle size and gives no indication of the composition of the particles or whether or not their presence is likely to be deleterious. It should not therefore be used for this purpose.

It is intended that other British Standards should call up BS 812 test methods as the basis of compliance. Nevertheless it is *not* intended that all aggregates should be subjected regularly to all the listed tests. Requirements in other British Standard specifications will refer only to the relevant test methods.

Some of the tests in other Parts of this standard are of limited application and advice on the use of simpler tests is given, for example, when they can be used for a preliminary sorting of aggregates to see whether more expensive testing is justified.

Reference should be made to BS 812-102 for general guidance on testing aggregates, precision of test methods and variance arising from sampling errors.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

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This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.