

AMERICAN SOCIETY FOR TESTING MATERIALS

PHILADELPHIA, PA., U. S. A.

AFFILIATED WITH THE

INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.

STANDARD METHOD

FOR

MAKING A MECHANICAL ANALYSIS OF BROKEN STONE OR BROKEN SLAG, EXCEPT FOR AGGREGATES USED IN CEMENT CONCRETE.

Serial Designation: D 18-16.

This method is issued under the fixed designation D 18; the final number indicates the year of original issue, or in the case of revision, the year of last revision.

ADOPTED, 1916.

The method shall consist of (1) drying at not over 110° C. (230° F.) to a constant weight a sample weighing in pounds six times the diameter in inches of the largest holes required; (2) passing the sample through such of the following size screens having circular openings as are required or called for by the specifications, screens to be used in the order named: 8.89 cm. ($3\frac{1}{2}$ in.), 7.62 cm. (3 in.), 6.35 cm. ($2\frac{1}{2}$ in.), 5.08 cm. (2 in.), 3.81 cm. ($1\frac{1}{2}$ in.), 3.18 cm. ($1\frac{1}{4}$ in.), 2.54 cm. (1 in.), 1.90 cm. ($\frac{3}{4}$ in.), 1.27 cm. ($\frac{1}{2}$ in.), and 0.64 cm. ($\frac{1}{4}$ in.); (3) determining the percentage by weight retained on each screen; and (4) recording the mechanical analysis in the following manner:

Passing 0.64-cm. ($\frac{1}{4}$ -in.) screen.....	per cent
Passing 1.27-cm. ($\frac{1}{2}$ -in.) screen and retained on a 0.64-cm. ($\frac{1}{4}$ -in.) screen.....	"
Passing 1.90-cm. ($\frac{3}{4}$ -in.) screen and retained on a 1.27-cm. ($\frac{1}{2}$ -in.) screen.....	"
Passing 2.54-cm. (1-in.) screen and retained on a 1.90-cm. ($\frac{3}{4}$ -in.) screen.....	"
.....	"
.....	"
.....	100.00