

Section 4110. Fine Aggregate for Portland Cement Concrete

4110.01 DESCRIPTION.

Natural sands resulting from disintegration of rock through erosional processes. Acquire mineral aggregate from an approved source as described in [Materials I.M. 409](#).

4110.02 GRADATION.

Meet the requirements for [Gradation No. 1](#) of the [Aggregate Gradation Table](#), Article 4109.02.

4110.03 QUALITY.

- A. Meet the requirements of Table 4110.03-1:

Table 4110.03-1: Test Limits and Methods

| Fine Aggregate Quality | Test Limits | Test Method |
|------------------------|----------------------------------|---|
| Shale and Coal | 2.0% (maximum) | Materials I.M. 344 |
| Mortar Strength | 6000 psi (41.4 MPa) (minimum) | Office of Materials Test Method No. Iowa 212 |

- B. The Engineer may require additional mortar strength testing for sources where quality changes.