

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.