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Standard Specification for Functional Additions for Use in Hydraulic Cements¹

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1. Scope

1.1 This specification covers methods to investigate the effectiveness of a material to beneficially change the properties of hydraulic cements when the material is interground with the clinker during manufacture of the cement.

1.2 The values stated in SI units are to be regarded as the standard.

1.3 The effect of additions in cement may markedly change properties other than those they are intended to modify. This specification is designed to test for such changes. Table 1 sets forth values for those properties of cement pastes and mortars that would permit a judgment of the changes effected by an addition. Likewise, Table 2 sets forth similar criteria for concrete. Certain additions may be found effective for more than one purpose as indicated in 3.1.4 and 3.1.5.

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This specification is under the jurisdiction of ASTM Committee C-1 C01 on Cement and is the direct responsibility of Subcommittee C01.20 on Additions. Current edition approved May 10, 1996; 2000. Published July 1996; September 2000. Originally published as C 688 – 71 T. Last previous edition C 688 – 956.