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Designation: C 737 – <u>97</u>02

Standard Specification for Limestone for Dusting of Coal Mines¹

This standard is issued under the fixed designation C 737; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers limestone suitable for use as dust in coal mines to prevent coal dust explosions.

NOTE 1—In coal mine operations, limestone is dusted onto coal exposures in sufficient amount so that not less than 65 % of all loose dust shall be limestone. With such a concentration of limestone, explosions cannot initiate or be propagated from nearby gas explosions. The limestone must be substantially dry in order to dust satisfactorily.

<u>1.2 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.</u>

2. Referenced Documents

2.1 ASTM Standards:

¹ This specification is under the jurisdiction of ASTM Committee C-7 C07 on Line and is the direct responsibility of Subcommittee C07.03 on Industrial Uses. Current edition approved June Dec. 10, 1997; 2002. Published June 1998; January 2003. Originally-published as C 737-73; approved in 1973. Last previous edition approved in 1997 as C 737-927.

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C 25 Test Methods for Chemical Analysis of Limestone, Quicklime, and Hydrated Lime²

- C 50 Methods for Sampling, Inspection, Packaging, and Marking of Lime and Limestone Products²
- C 110 Test Methods for Physical Testing of Quicklime, Hydrated Lime, and Limestone²

3. Chemical Composition

3.1 Limestone shall conform to the following as to chemical composition:	
Moisture (at point of manufacture), max, % Silica, free and combined, max, %	0.5 4.0
4. Physical Properties	
4.1 Limestone for this application shall have the following-fineness: particle size:	
Passing a No. 20 (850-μm) sieve, min, % Passing a No. 200 (75-μm) sieve, min, %	100 70

5. Test Methods

5.1 *Chemical Analysis*—The chemical analysis of the limestone shall be<u>made conducted</u> in accordance with Test Methods C 25.

5.2 *FinenessParticle Size*—The sieve analysis of limestone shall be determined <u>conducted</u> in accordance with Test Methods C 110.

6. General Requirements

6.1 Either high calcium or dolomitic limestone may be furnished for this application.

7. Sampling, Inspection, etc.

7.1 The sampling, inspection, rejection, retesting, packaging, and marking shall be conducted in accordance with Methods C 50.

8. Keywords

8.1 coal mines; dolomitic limestone; fineness; high calcium limestone; lime; limestone; limestone dust; mine explosions; moisture content; silica content

² Annual Book of ASTM Standards, Vol 04.01.

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