



Designation: D 2755 – 90 (Reapproved 1997)^{ε1}

An American National Standard

Standard Test Method of Sampling and Reduction to Test Weight of Electrical Grade Magnesium Oxide¹

This standard is issued under the fixed designation D 2755; 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.

ε¹ NOTE—Keywords were added in October 1997.

1. Scope

1.1 This test method covers techniques for sampling large lots of magnesium oxide (MgO) and reducing representative samples to test weight.

1.2 The values stated in acceptable metric units are to be regarded as the standard. The values in parentheses may be approximate.

1.3 *This standard does not purport to address the safety problems 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.*

2. Referenced Documents

2.1 *ASTM Standards:*

D 2772 Test Method for Sieve Analysis of Electrical Grade Magnesium Oxide²

3. Apparatus

3.1 *Splitter*, consisting of a series of chutes fed by a single hopper. The chutes are so placed that each alternate chute discharges to the same side of the sampler. The spacing of plates must remain 1.6 to 3.2 mm ($\frac{1}{16}$ to $\frac{1}{8}$ in.). The splitter should be capable of obtaining homogeneous splits.³

¹ This method is under the jurisdiction of ASTM Committee D-9 on Electrical and Electronic Insulating Materials and is the direct responsibility of Subcommittee D09.14 on Electric Heating Unit Insulation.

Current edition approved July 27, 1990. Published September 1990. Originally published as D 2755 – 68. Last previous edition D 2755 – 68 (1977).

² *Annual Book of ASTM Standards*, Vol 10.02.

³ Splitters available from C. E. Tyler Industrial Products, 8200 Tyler Blvd., Mentor, OH or Microsplitter (Model SS162) Carpc Research and Engineering, 4120 Haines St., P. O. Box 3272, Jacksonville, FL have been found satisfactory for this method.

3.2 *Scoop*.

3.3 *Blender*—Any commercially acceptable blender with a 45 kg (100 lb) minimum capacity.⁴

4. Procedure

4.1 *For Reduction of Bulk (— Approximately 45 kg (100 lb)) Quantities:*

4.1.1 Blend the entire content of one or more standard containers for a minimum of 15 min in a suitable sized blender.

4.1.2 Remove 1 L of material in a minimum of five scoops from the various parts of the blender.

4.2 *For Reduction of 1 L Samples:*

4.2.1 Pour the sample evenly into the splitter, across the splitter opening.

4.2.2 When the entire sample has been poured through, tap the side of the splitter to make sure no build-up has occurred. Discard the content of one pan.

4.2.3 If a smaller sample is required, repeat the splitting process.

5. Precision

5.1 When samples from both sides of the splitter are tested in accordance with Test Method D 2772, the percent weight retained on any given sieve shall be within 3.0 % of the average percent weight retained on that sieve.

6. Keywords

6.1 electrical grade; magnesium oxide; sampling and reduction; test weight

⁴ The MacLellan batch mixer manufactured by Daffin Manufacturing Co., Lancaster, PA (formerly Anglo American Co.) has been found satisfactory for this method.



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