



Designation: ~~D2415 – 98 (Reapproved 2012)~~ D2415 – 15

Standard Test Method for Ash in Coal Tar and Pitch¹

This standard is issued under the fixed designation D2415; 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~~ Scope*

- 1.1 This test method covers the determination of the ash content of tar and pitch.
- 1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.
- 1.3 *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.*

2. Referenced Documents

2.1 *ASTM Standards:*²

~~D370~~D850 Practice Test Method for Dehydration of Oil-Type PreservativesDistillation of Industrial Aromatic Hydrocarbons and Related Materials

D4296 Practice for Sampling Pitch

E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves

3. Summary of Test Method

3.1 The sample is carefully volatilized and burned in a muffle furnace or by other suitable means, after which the carbonaceous residue is completely oxidized and the remaining ash stabilized at ~~900~~900 °C in the muffle furnace.

4. Significance and Use

4.1 This test method determines the amount of inorganic matter in the sample.

5. Apparatus

5.1 *Muffle Furnace*—A muffle furnace with good air circulation and capable of having its temperature regulated at ~~900~~900 °C \pm ~~10~~10 °C.

5.2 *Dish or Crucible*, porcelain, silica, or platinum, having a capacity of ~~35~~35 mL to ~~45~~45 mL and a diameter at the top of ~~55~~55 mm to ~~60~~60 mm.

5.3 *Sieve*, U.S. Standard ~~600~~600 μ m Standard 600 μ m (No. 30), conforming to Specification E11.

6. Bulk Sampling

6.1 Samples from shipments shall be taken in accordance with Practice D4296 and shall be free of foreign substances. Thoroughly mix the sample immediately before removing a representative portion for the determination or for dehydration.

7. Dehydration of Sample

7.1 *Hard Pitch*—If the solid bulk sample contains free water, air-dry a representative portion in a forced draft oven at ~~50~~50 °C.

¹ This test method is under the jurisdiction of ASTM Committee D02 on Petroleum ~~Products~~ Products, Liquid Fuels, and Lubricants and is the direct responsibility of Subcommittee D02.05 on Properties of Fuels, Petroleum Coke and Carbon Material.

Current edition approved Nov. 1, 2012 Dec. 1, 2015. Published November 2012 December 2015. Originally approved in 1965. Last previous edition approved in 2008 2012 as ~~D2415 – 98 (2008)~~ D2415 – 98 (2012). DOI: ~~10.1520/D2415-98R12~~ 10.1520/D2415-15.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

*A Summary of Changes section appears at the end of this standard