



Designation: D633 – 11

## Standard Volume Correction Table for Road Tar<sup>1</sup>

This standard is issued under the fixed designation D633; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

*This standard has been approved for use by agencies of the U.S. Department of Defense.*

### 1. Scope

1.1 This table (Table 1) has been prepared by the National Institute of Standards and Technology to meet a demand from the tar industry for a short and convenient table for reducing volumes of road tar to the basis of 60°F (15.6°C) when extreme accuracy is not required. The table shows the volume occupied at 60°F (15.6°C) by a quantity of material occupying unit volume at the indicated temperature.

1.2 *Units*—The values stated in inch-pound units are to be regarded as the standard. The values given in

### 2. Referenced Documents

- 2.1 *ASTM Standards*:<sup>2</sup>  
D490 Specification for Road Tar

### 3. Significance and Use

3.1 Tars change in volume with changes in temperature. They are loaded or transferred at widely varying temperatures. Volume correction factors are used to adjust bulk volumes measured at those temperatures with corresponding volumes at a base temperature of either 60°F or 15.6°C for the purposes of custody transfer and accounting operations.

3.2 Correction factors as provided in this table have proven to be sufficiently accurate for the intended purposes.

3.3 The coefficient of expansion for D490 Type RT-12 at 60°F (15.6°C) per degree F is 0.00030.

<sup>1</sup> This standard is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.43 on Specifications and Test for Tar and Tar Products.

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<sup>2</sup> 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.