



Designation: D 633 – 97 (Reapproved 2001)

Standard Volume Correction Table for Road Tar¹

This standard is issued under the fixed designation D 633; 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 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 15.6°C (60°F) when extreme accuracy is not required. The table shows the volume occupied at 15.6°C by a quantity of material occupying unit volume at the indicated temperature.

2. Referenced Documents

- 2.1 *ASTM Standards*:
D 490 Specification for Road Tar²

¹ 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 Tests for Tar and Tar Products.
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² *Annual Book of ASTM Standards*, Vol 04.03.

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 15.6°C or 60°F 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 **D 490** type RT-12 at 15.6°C (60°F) per degree F is 0.00030.