



Standard Tables for Volume and Specific Gravity Correction for Creosote, Creosote-Coal Tar Solution and Coal Tar ^{1,2}

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1. Scope

1.1 These tables have been prepared by the National Institute of Standards and Technology to meet a demand from the wood preserving industry for convenient tables for reducing creosote volumes to the basis of 100°F (38°C) and for reducing specific gravity observations to the same temperature. Table 1 and Table 2 give in parallel columns corrections factors for creosote and for mixtures of creosote and coal tar (up to 50 % tar) designated as solution, and for coal tar. They are based on density determinations made on a selected range of domestic coke-oven tars.

¹ These tables are under the jurisdiction of ASTM Committee D07 on Wood and are the direct responsibility of Subcommittee D07.06 on Treatments for Wood Products.

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² These tables have been adopted as standard by the American Wood Preservers' Association and by the American Railway Engineering Association; they are the outcome of a Joint Conference Committee representing these associations and the American Society for Testing and Materials.

1.2 Table 2 shows the volume occupied at 100°F (38°C) by a quantity of oil occupying a unit volume at the indicated temperature; for example, 1 gal of creosote measured at 120°F (49°C) will have a volume of 0.9921 gal at 100°F (38°C); thus, if the volume of creosote at 120°F (49°C) equals 10 000 gal, then the volume at 100°F (38°C) equals 10 000 times 0.9921 or 9921 gal.

1.3 Table 2 gives corrections for observed specific gravity which are simply made by adding them to the observed values for temperatures above 100°F (38°C) and subtracting them for temperatures below 100°F (38°C).

1.4 *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. Keywords

2.1 coal tar; creosote; specific gravity; volume