AASHTO

Craig Thompson, *President*
Secretary, Wisconsin Department of Transportation
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August 2024 ERRATA for *Standard Method of Test for Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage*, 2022 (T 283-22)

August 2024

Dear Customer:

AASHTO has issued an erratum, which includes revisions to the *Standard Method of Test for Resistance of Compacted Asphalt Mixtures to Moisture-Induced Damage*, 2022 (T 283-22). The corrections are detailed in the table below.

The changes are displayed in **bold** on the page within the text. In addition, the pages with the changes have a gray box in the page header reading as follows:

August 2024 Errata

Please feel free to download additional copies of this listing from the AASHTO online Store at:

https://downloads.transportation.org/T 283-22-Errata.pdf

AASHTO staff sincerely apologizes for any inconvenience.

Original Page	Section	Existing Text	Corrected Text
T 283-9	T 283	In Section 12.1, tensile strength Equations 5 and 6 are missing "π" in the denominator.	Equations should read as follows: $S_t = \frac{2000P}{\pi t D}$ (5) $S_t = \frac{2P}{\pi t D}$ (6)

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12. CALCULATIONS

12.1. *Calculate the tensile strength as follows*:

SI units:

$$S_t = \frac{2000P}{\pi t D} \quad \textbf{(5)}$$

where:

S_t = tensile strength, kPa;
P = maximum load, N;
t = specimen thickness, mm; and
D = specimen diameter, mm.

U.S. Customary units:

$$S_t = \frac{2P}{\pi t D} \quad \textbf{(6)}$$

where:

S_t = tensile strength, psi;
P = maximum load, lbf;
t = specimen thickness, in.; and
D = specimen diameter, in.

12.2. Express the numerical index of resistance of asphalt mixtures to the detrimental effect of water as the ratio of the original strength that is retained after the moisture and freeze–thaw conditioning. Calculate the tensile strength ratio to two decimal places as follows:

$$\text{tensile strength ratio (TSR)} = \frac{S_2}{S_1} \quad \textit{(7)}$$

where:

S_1 = average tensile strength of the dry subset, kPa (psi); and
S_2 = average tensile strength of the conditioned subset, kPa (psi).

13. REPORT

13.1. *Report the following information*:

13.1.1. Number of specimens in each subset;

13.1.2. Average air voids of each subset;

13.1.3. Tensile strength of each specimen in each subset;

13.1.4. Tensile strength ratio;

13.1.5. Results of visually estimated moisture damage observed when the specimen fractures; and

13.1.6. Results of observations of cracked or broken aggregate.

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14. KEYWORDS

14.1. Accelerated water conditioning; diametral tensile strength; freeze–thaw cycle; liquid antistripping additives; long-term stripping; portland cement; pulverulent solids; water saturation.

15. REFERENCE

15.1. ASTM. D979/D979M, Standard Practice for Sampling Asphalt Mixtures.

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