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Standard Specification for A Radial Standard Reference Test Tire¹

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1. Scope

1.1 This specification covers the general requirements for a radial-ply standard reference test tire. The tire covered by this specification is primarily for use as a reference for tire traction performance evaluations, but may also be used for other evaluations, such as pavement roughness, noise, or other tests that require a reference tire.

1.2 This specification also provides a standard design of certified construction, accurate dimensions, and specifies a means of storage.

2. Referenced Documents

2.1 ASTM Standards:

D 412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension²

D 1054 Test Method for Rubber Property Resilience Using a Rebound Pendulum²

D 1765 Classification System for Carbon Blacks Used in Rubber Products²

D 2240 Test Method for Rubber Property—Durometer Hardness²

D 3182 Practice for Rubber—Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets²

3. Design and Construction

3.1 The standard reference test tire shall be size P195/75R14, current technology All Season tread design steel-belted radial (see Fig. 1 and Fig. 2).



FIG. 1 Front View of a Radial Reference Tire

¹ This specification is under the jurisdiction of ASTM Committee E-17 on Vehicle-Pavement Systems and is the direct responsibility of Subcommittee E17.24 on Tire and Slider Characteristics.

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² *Annual Book of ASTM Standards*, Vol 09.01.