



Designation: F 414 – 9600

Standard Test Method for Energy Absorbed by a Tire When Deformed by a Slow- Moving Plunger¹

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1. Scope

1.1 This test method covers the determination of tire plunger energy required to completely penetrate the tread area of an inflated tire as indicated by a rupture, loss of inflation pressure, sudden drop in plunger force or bottom-out. The test requires utilization of a laboratory testing machine equipped with a slow-moving plunger which has a hemispherical end.

1.2 This test method is applicable to pneumatic tires for vehicles normally used on the road.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are provided for information only.

2. Referenced Documents

2.1 *ASTM Standards:*

E 4 Practices for Force Verification of Testing Machines²

¹ This test method is under the jurisdiction of ASTM Committee F-9 F09 on Tires and is the direct responsibility of Subcommittee F9.30 on Laboratory (Non-Vehicular) Testing.

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