

Tentative Methods of TESTING CELLULAR RUBBER PRODUCTS¹



A.S.T.M. Designation: D 552 - 46a T

(Revision of Methods D 552 - 46 T)

ISSUED 1939; REVISED, 1941, 1943, 1944, JANUARY 1946, JUNE 1946.²

These Tentative Methods have been approved by the sponsoring committee and accepted by the Society in accordance with established procedures, for use pending adoption as standard. Suggestions for revisions should be addressed to the Society at 1916 Race St., Philadelphia 3, Pa.

Scope

1. (a) These methods cover procedures for testing cellular rubber products in which the base material used in manufacture may be natural rubber, reclaimed rubber, synthetic rubber or rubber-like materials, alone or in combination. Cellular rubbers may be vulcanized either to soft or to hard (ebonite) rubber.

(b) The cellular rubber products to which these methods are applicable include sponge rubbers, latex foam rubbers, and expanded rubbers. The methods included are not all applicable to every class of cellular rubbers nor do they necessarily include every test applicable to a particular class of cellular rubber. References to these methods for testing cellular rubber products should specifically state the particular test or tests desired.

General Methods

2. (a) Except as otherwise specified in these methods of testing cellular rubbers,

the following methods of test of the American Society for Testing Materials, applicable in general to vulcanized rubber, shall be complied with as required and are hereby made a part of these test methods:

General Physical Test Requirements.—Standard Methods of Sample Preparation for Physical Testing of Rubber Products (A.S.T.M. Designation: D 15).³

Aging Test.—Standard Method of Test for Accelerated Aging of Vulcanized Rubber by the Oxygen-Pressure Method (A.S.T.M. Designation: D 572),³ Standard Method of Test for Accelerated Aging of Vulcanized Rubber by the Oven Method (A.S.T.M. Designation: D 573),³ and Standard Method of Air Pressure Heat Test of Vulcanized Rubber (A.S.T.M. Designation: D 454).³

Compression Set.—Tentative Methods of Test for Compression Set of Vulcanized Rubber (A.S.T.M. Designation: D 395).³

Chemical Analysis.—Tentative Methods of Chemical Analysis of Rubber Products (A.S.T.M. Designation: D 297).³

¹ Under the standardization procedure of the Society, these methods are under the jurisdiction of the A.S.T.M. Committee D-11 on Rubber and Rubber-Like Materials.

² Latest revisions accepted by the Administrative Committee on Standards, January 10, 1946, and by the Society at annual meeting, June, 1946

³ Appears in this publication, see Contents in Numerical Sequence of A.S.T.M. Designations at front of book.