

CHANGE NOTICES ARE NOT  
CUMULATIVE AND SHALL  
BE RETAINED UNTIL SUCH  
TIME AS THE ENTIRE  
STANDARD IS REVISED.  
RETAIN CHANGE NOTICES 1,  
2, 3, AND 4

FED. TEST METHOD STD. NO. 601  
APRIL 12, 1955  
CHANGE NOTICE 5  
February 20, 1970

FEDERAL TEST METHOD STANDARD

RUBBER: SAMPLING AND TESTING

The following changes in Federal Test Method Standard No. 601, dated April 12, 1955 have been approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

SUPERSESSIONS. The test methods of the American Society for Testing and Materials as specified in this change notice supersede the designated methods of Fed. Test Method Std. No. 601. The method in change notice 4 (3061) is superseded by ASTM D1415-68 in this change notice.

RETAIN THIS CHANGE NOTICE AND INSERT BEFORE THE TABLE OF CONTENTS

FED. TEST METHOD STD. NO. 601  
February 20, 1970

INDEX OF SUPERSEDED FED. STD. 601 METHODS

FED. STD. 601 - TITLE OF METHOD	FED. STD. 601 SUPERSEDED METHOD	USE ASTM METHOD
---------------------------------	---------------------------------------	--------------------

Group 1000 - Preparation of Materials and Samples

Separation of Rubber From Other Materials	1011	D15-68a	Section 14
Buffing	1111	D15-68a	Section 15
Composite Sample for Chemical Analysis	1211	D297-68,	Section 8

Group 3000 - Rheological Tests

Hardness, International, of Vulcanized, Natural and Synthetic Rubbers	3061	D1415-68	
	Change Notice 4		

Group 4000 - Tension Tests

Tension Tests, General	4001	D412-68	
Calibration of Tension Testing Machine	4116	D412-68,	Section 3.8
Elongation, Ultimate	4121	D412-68	
Tear Resistance, Crescent and Angle	4211	D624-54	
	Also in Change Notice 1		
Tension Set	4411	D412-68	

Group 5000 - Thermal Adhesion Tests

Conditioning of Materials for Low Temperature Testing, General	5111	D832-64	
-------------------------------------------------------------------	------	---------	--

Group 8000 - Adhesion Tests

Friction, Dead-Weight Method	8021	D413-39 (1965)	
------------------------------	------	----------------	--

Group 1100 - Hard Rubber

Impact Resistance, Hard Rubber, Cantilever	11221	D530-68, Section 4.1.5 and D256-56 (1961) Method A	
Impact Resistance, Hard Rubber, Simple Beam	11231	D530-68, Section 4.1.5 and D256-56 (1961) Method B	

FED. TEST METHOD STD. NO. 601

FED. TEST METHOD STD. NO. 601  
February 20, 1970

INDEX OF SUPERSEDED FED. STD. 601 METHODS (Cont'd)

FED. STD. 601 - TITLE OF METHOD	FED. STD. 601 SUPERSEDED METHOD	USE ASTM METHOD
---------------------------------	---------------------------------------	--------------------

Group 1400 - Miscellaneous Physical Tests

Testing Rubber O-Rings	NONE	D1414-68
------------------------	------	----------

Group 15000 - Chemical Analysis of Synthetic Rubber Compounds

Chemical Analysis of Synthetic Rubber Compounds, General	15001	D297-68
Acrylonitrile Rubber	15211	D297-68, Section 54
Polyisobutylene Rubber	15511	D297-68, Section 55

Group 16000 - Chemical Analysis of Rubber Compounds and Packings

Preliminary Examination of Sample for Test	16011	D297-68, Section 9
Rubber Content, General	16101	D297-68, Section 51
Rubber Content, Indirect Method	16111	D297-68, Sections 10-12
Rubber Content, Direct Method	16121	D297-68, Section 52
Sulfur, General	16201	D297-68, Sections 26& 2.
Sulfur, Free	16211	D297-68, Section 28
Sulfur, Zinc-Nitric Acid Method	16231	D297-68, Section 30
Sulfur, Fusion Method	16241	D297-68, Section 31
Sulfur, Inorganic, Antimony Absent	16261	D297-68, Section 32
Extract, Total	16311	D297-68, Section 20
Extract, Acetone	16321	D297-68, Section 18
Extract, Chloroform	16331	D297-68, Section 19
Extract, Alcoholic Potassium Hydroxide	16341	D297-68, Section 21
Extract Acetone, Unsaponifiable	16351	D297-68, Section 22
Extract, Waxy Hydrocarbons	16361	D297-68, Section 23
Extract, Mineral Oil	16371	D297-68, Section 24
Fillers, Ash Method	16431	D297-68, Section 34
Glue	16521	D297-68, Section 39

FED. TEST METHOD STD. NO. 601

FED. TEST METHOD STD. NO. 601  
February 20, 1970

INDEX OF ASTM TEST METHODS

ASTM TITLES OF METHODS AND APPLICABLE SECTIONS	USE ASTM METHOD	ASTM METHOD SECTION	SUPERSEDED FED. STD. 601 METHOD
Sample Preparation For Physical Testing of Rubber Products			
Separation of Rubber	D15-68a	14	1011
Buffing and Preparation of Material		15	1111
Impact Resistance of Plastics and Electrical Insulating Materials			
Method A (Cantilever) of ASTM D256-56 (1961) and	D256-56 (1961)		
Impact Resistance of ASTM D530-68	D530-68	4.1.5	11221
Method B (Simple Beam) of ASTM D256-56 (1961) and	D256-56 (1961)		
Impact Resistance of ASTM D530-68	D530-68	4.1.5	11231
Chemical Analysis of Rubber Products (Tentative)	D297-68		
The General Requirements			15001
Preparation of Samples		8	1211
Preliminary Examination of Samples		9	16011
Rubber Polymer Content by the Indirect Method		10-12	16111
Acetone Extract		18	16321
Chloroform Extract		19	16331
Total Extract		20	16311
Alcoholic Potash Extract		21	16341
Unsaponifiable Acetone Extract		22	16351
Waxy Hydrocarbons		23	16361
Mineral Oil		24	16371
Sulfur Determination		26-27	16201
Free Sulfur		28	16211
Sulfur Zinc-Nitric Acid Method		30	16231
Sulfur, Fusion Method		31	16241
Sulfur, Inorganic, Antimony Absent		32	16261
Fillers, Referee Ash Method		34	16431
Nitrogen Calculated as Glue		39	16521
Scope		51	16101
Direct Determination of Natural and Synthetic			
Isoprene Polymers		52	16121
Estimation of NBR Polymer		54	15211
Direct Determination of IIR Polymer		55	15511
Hardness of Rubber	D314-58 (1965)		3041
Tension Testing of Vulcanized Rubber	D412-68		4001
Ultimate Elongation			4121
Tension Set			4411
Calibration of Testing Machine		3.8	4116
Adhesion of Vulcanized Rubber (Friction Test)	D413-39 (1965)		8021
Testing Hard Rubber Products	D530-68		
Impact Resistance and ASTM	D530-68 &	4.1.5	
D256-56 (1961) Method A (Cantilever)	D256-56 (1961)		11221
Impact Resistance and ASTM	D530-68 &	4.1.5	
D256-56 (1961) Method B (Simple Beam)	D256-56 (1961)		11231
Tear Resistance of Vulcanized Rubber	D624-54		4211
Conditioning of Elastomeric Materials for Low-Temperature Testing	D832-64		Also in Change Notice 1 5111
Testing Rubber O-Rings	D1414-68		
International Hardness of Vulcanized Natural and Synthetic Rubbers	D1415-68		3061 In Change Notice 4

FED. TEST METHOD STD. NO. 601