

TABLE OF CONTENTS

Harmonized Nonwovens Standard Procedures Editions 2015 and forward

Latest update: February 2024

	Method number* <small>(hyperlinks for members only)</small>
1) GUIDANCE DOCUMENTS	
Standard Terminology Relating to the Nonwoven Industry	NWSP 001.0.R1 (24)
Drafting a NWSP Standard Procedure	NWSP 002.0.R2 (19)
Standard Atmospheres for Conditioning and/or Testing	NWSP 003.0.R0 (20)
Associations Worldwide	NWSP 004.0.R1 (20)
Nonwoven Sampling	NWSP 005.0.R0 (20)
2) ABSORPTION	
Three Standard Test Methods for Nonwoven Absorption	NWSP 010.1.R0 (20)
Rate of Sorption of Wiping Materials	NWSP 010.2.R1 (20)
Nonwovens Demand Absorbency	NWSP 010.3.R0 (20)
Evaluation of Oil and Fatty Liquids Absorption	NWSP 010.4.R0 (20)
3) ABRASION RESISTANCE	
Abrasion Resistance of Nonwoven Fabrics- Inflated Diaphragm Apparatus	NWSP 020.1.R0 (20)
Abrasion Resistance of Nonwoven Fabrics- Flexing and Abrasion Method	NWSP 020.2.R0 (24)
Abrasion Resistance of Nonwoven Materials (Rotary Platform, Double-Head Method)	NWSP 020.4.R0 (23)
Abrasion Resistance of Nonwoven Fabrics using a Nonwoven Modified Martindale Abrasion Test Method	NWSP 020.5.R0 (20)
4) BURSTING STRENGTH	
Hydraulic Bursting Strength of Nonwoven Materials- Motor Driven Diaphragm Bursting Strength Tester Method	NWSP 030.1.R0 (20)
Nonwovens Burst	NWSP 030.2.R0 (20)
5) ELECTROSTATIC PROPERTIES	
Surface Resistivity of Nonwoven Fabrics	NWSP 040.1.R1 (20)
Electrostatic Decay of Nonwoven Fabrics	NWSP 040.2.R0 (20)

6) OPTICAL PROPERTIES

Optical Properties (Opacity) of Nonwoven Fabrics (INDA)	NWSP 060.1.R0 (20)
Optical Properties (Brightness) of Nonwoven Fabrics (INDA)	NWSP 060.2.R0 (20)
Nonwoven Brightness (EDANA)	NWSP 060.3.R1 (20)
Nonwoven Opacity (EDANA)	NWSP 060.4.R0 (20)

7) PERMEABILITY

Air Permeability of Nonwoven Materials	NWSP 070.1.R0 (20)
Nonwoven Coverstock Liquid Strike-Through Time Using Simulated Urine	NWSP 070.3.R1 (19)
Water Vapor Transmission Rates of 500 to 100,000 gm/m ² /day Mocon/INDA	NWSP 070.4.R0 (23)
Water Vapor Transmission Rate by the Principle of Measurement of Relative Humidity in a Dry cell Mocon/EDANA, Part 1	NWSP 070.5.R1 (22)
Water Vapor Transmission Rate by the Principle of Measuring the Time to Increase Humidity Lyssy/EDANA, Part 2	NWSP 070.6.R0 (20)
Repeated Liquid Strike-Through Time (Simulated Urine)	NWSP 070.7.R2 (20)
Wetback After Repeated Strike-Through Time (Simulated Urine)	NWSP 070.8.R1 (19)
Nonwoven Adult Incontinence Products: Rate of Acquisition and Re-Wet Test	NWSP 070.9.R1 (23)
Nonwoven Adult Incontinence Products: Centrifugal Liquid Retention Capacity Test (Dry Weight vs. Wet Spun Weight)	NWSP 070.10.R2 (19)

8) REPELLENCY

Surface Wetting Spray Test	NWSP 080.1.R0 (20)
Penetration by Water (Rain Test) for Nonwoven Fabrics	NWSP 080.2.R0 (24)
Evaluation of Water Penetration (Spray Impact Test) of Nonwoven Fabrics	NWSP 080.3.R1 (19)
Saline Repellency Using the Automated Mason Jar End Point Detector	NWSP 080.5.R0 (20)
Evaluation of Water Resistance (Hydrostatic Pressure) Test	NWSP 080.6.R0 (23)
Penetration by Oil (Hydrocarbon Resistance)	NWSP 080.7.R0 (23)
Alcohol Repellency of Nonwoven Fabrics	NWSP 080.8.R0 (20)
Nonwoven Run Off	NWSP 080.9.R1 (19)
Nonwovens Coverstock Wetback	NWSP 080.10.R2 (20)
Nonwoven Wet Barrier Mason Jar	NWSP 080.11.R0 (20)

9) STIFFNESS

Stiffness of Nonwoven Fabrics Using the Cantilever Test (INDA)	NWSP 090.1.R0 (20)
-------------------------------------------------------------------	------------------------------------

Stiffness of Nonwoven Fabrics Using the Gurley Tester	NWSP 090.2.R0 (20)
Handle-O-Meter Stiffness of Nonwoven Fabrics	NWSP 090.3.R0 (20)
Nonwovens Cusick Drape	NWSP 090.4.R0 (20)
Nonwovens Bending Length (EDANA)	NWSP 090.5.R0 (20)
Evaluation of Drapeability Including Drape Coefficient of Nonwoven Fabrics	NWSP 090.6.R0 (20)
10) TEAR STRENGTH	
Tearing Strength of Nonwoven Fabrics by Falling-Pendulum (Elmendorf) Apparatus	NWSP 100.1.R0 (20)
Tearing Strength of Nonwoven Fabrics by the Trapezoid Procedure	NWSP 100.2.R1 (20)
Tearing Strength of Nonwoven Fabrics by the Tongue (Single Rip) Procedure using the Constant-Rate-of-Extension Tensile Testing Machine	NWSP 100.3.R0 (20)
11) TENSILE	
Breaking Strength and Elongation of Nonwoven Materials (Grab Strength Test)	NWSP 110.1.R0 (24)
Internal Bond Strength of Nonwoven Fabrics	NWSP 110.3.R0 (20)
Breaking Force and Elongation of Nonwoven Materials (Strip Method)	NWSP 110.4.R1 (22)
Resistance to Mechanical Penetration (Ball Burst Procedure) of Nonwoven Fabrics	NWSP 110.5.R0 (20)
12) THICKNESS	
Thickness of Nonwoven Fabrics (INDA)	NWSP 120.1.R0 (20)
Thickness of Highloft Nonwoven Fabrics	NWSP 120.2.R0 (20)
Measuring Compression and Recovery of Highloft Nonwoven Fabrics	NWSP 120.3.R0 (20)
Determination of Compression and Recovery of Highloft Nonwoven Fabrics Using Weights and Plates. Method 1: at room temperature	NWSP 120.4.R1 (20)
Determination of Compression and Recovery of Highloft Nonwoven Fabrics Using Weights and Plates. Method 2: at elevated temperature	NWSP 120.5.R1 (20)
Nonwoven Thickness (EDANA)	NWSP 120.6.R0 (23)
13) WEIGHT	
Mass per Unit Area	NWSP 130.1.R0 (20)
14) BINDER/APPERANCE/DRY CLEANING	
Resin Binder Distribution and Binder Penetration, Analysis of Polyester Nonwoven Fabrics	NWSP 150.1.R0 (20)
Appearance and Integrity of Highloft Batting After Refurbishing	NWSP 150.2.R0 (22)

15) LINTING

Resistance to Linting of Nonwoven Fabrics (Dry)	NWSP 160.1.R0 (23)
Aqueous Method for Determining Releases of Particulates (Wet)	NWSP 160.2.R0 (20)
Measuring Fibrous Debris from Nonwoven Fabrics	NWSP 160.3.R1 (19)
Determining Fibrous Debris from Hydrophobic Nonwoven Fabrics	NWSP 160.4.R0 (22)

16) SUPERABSORBENT MATERIALS

Polyacrylate Superabsorbent Powders- Determination of pH	NWSP 200.0.R2 (19)
Polyacrylate Superabsorbent Powders- Determination of the Amount of Residual Acrylate Monomers	NWSP 210.0.R2 (19)
Polyacrylate Superabsorbent Powders-Determination of the Particle Size Distribution by Sieve Fractionation	NWSP 220.0.R2 (19)
Polyacrylate Superabsorbent Powders-Estimation of the Moisture Content as Weight Loss Upon Heating	NWSP 230.0.R2 (19)
Polyacrylate Superabsorbent Powders- Determination of the Free Swell Capacity in Saline by Gravimetric Measurement	NWSP 240.0.R2 (19)
Polyacrylate Superabsorbent Powders- Determination of the Fluid Retention Capacity in Saline Solution by Gravimetric Measurement Following Centrifugation	NWSP 241.0.R2 (19)
Polyacrylate Superabsorbent Powders- Gravimetric Determination of Absorption Against Pressure	NWSP 242.0.R2 (19)
Polyacrylate Superabsorbent Powders- Determination of the Permeability Dependent Absorption Under Pressure of Saline Solution by Gravimetric Measurement	NWSP 243.0.R2 (19)
Polyacrylate Superabsorbent Powders- Gravimetric Determination of Flow Rate and Bulk Density	NWSP 251.0.R2 (24)
Polyacrylate Superabsorbent Powders- Determination of Extractable Polymer Content by Potentiometric Titration	NWSP 270.0.R2 (19)

17) BACTERIAL

Nonwovens Bacterial Filtration Efficiency	NWSP 300.0.R0 (20)
Dry Bacterial Penetration	NWSP 301.0.R0 (24)
Nonwoven Wet Bacterial Penetration	NWSP 302.0.R0 (24)

18) FORMALDEHYDE

Free and Hydrolyzed Formaldehyde in Nonwovens (Water Extraction Method) Method I	NWSP 310.1.R1 (15)
----------------------------------------------------------------------------------	------------------------------------

Free and Hydrolyzed Formaldehyde Extracted at Stressed Extraction Conditions in Nonwovens Method II	NWSP 311.1.R1 (15)
Determination of Free Formaldehyde in Nonwovens by Liquid Chromatography Method III	NWSP 312.0.R1 (15)
Determination of Released Formaldehyde in the Processing of Aqueous Systems Method IV	NWSP 313.1.R1 (15)
19) ABSORBENT HYGIENE PRODUCTS	
Menstrual Tampons Absorbency- Syngina Method	NWSP 350.1.R1 (20)
Determination of Ethanol- Extractable Organotin Species in Absorbent Hygiene Products and Materials, Absorbent Hygiene Materials - Organotin I	NWSP 351.0.R0 (20)
Determination of Organotin Species Extracted from Absorbent Hygiene Products and Materials with Synthetic Urine, Absorbent Hygiene Products – Organotin II	NWSP 352.0.R0 (20)
Determination of Aceton Extractable Finish on Nonwoven	NWSP 353.0.R1 (22)
Absorption Before Leakage Using an Adult Mannequin	NWSP 354.0.R2 (22)
Determination of trace chemicals extracted from absorbent hygiene products (AHPs) using simulated urine/menses Part 1: Milling of AHPs to produce a homogenized sample	NWSP 360.1.R0 (20)
Determination of trace chemicals extracted from absorbent hygiene products (AHPs) using simulated urine/menses Part 2: Extraction of trace chemicals from homogenized AHPs into a simulated urine/menses solution	NWSP 360.2.R1 (22)
Determination of trace chemicals extracted from absorbent hygiene products (AHPs) using simulated urine/menses Part 3: Analysis of trace chemicals in aqueous extracts (biological fluid simulants) of AHPs	NWSP 360.3.R0 (20)
20) SUPPLEMENTARY PROCEDURES	
Surface Linting of Nonwovens	NWSP 400.0.R1 (20)
Composites Lamination Strength	NWSP 401.0.R0 (20)
Cup Crush	NWSP 402.0.R0 (20)
Testing High Loft and Needled Batting for Flame Resistance and Thermal Transfer Properties	NWSP 403.0.R0 (20)
Homogenization of Absorbent Hygiene Products Using a Laboratory Cutting Mill	NWSP 404.0.R0 (22)
Fiber Orientation Distribution of Nonwoven Fabrics	NWSP 407.0.R0 (20)

* Method Number
NWSP nnn.nn.Rr (yy)

NWSP → NonWovens Standard Procedure
nnn.nn → Numbering system, historically chosen
Rr → Revision number
(yy) → Year of last release (publication), e.g. 2015