

PSGTECHS COE INDUTECH
Harmonized Test Methods Nonwovens and Related Industries
Table of Contents

Description	Method Number	Equivalent Methods	ISO Reference
<u>1) GUIDANCE DOCUMENTS</u>			
Glossary of Terms	WSP 1.0 (09)	Original Document	
How to Write a Test Method	WSP 2.0 (09)	Original Document	
Sample and Laboratory Conditioning	WSP 3.0 (09)	ERT 60.2 (99)	
Worldwide Associations	WSP 4.0 (09)	ERT Useful Addresses	
Sampling	WSP 5.0 (09)	ERT 130.2 (99)	
List of Vendors	WSP 6.0 (09)	IST Useful Vendor's List	
Guidance to Nonwoven Test Methods	WSP 7.0 (09)	INDA Guidance Document	
Guidance to Highloft Test Methods	WSP 8.0 (09)	INDA Guidance Document	
<u>2) ABSORPTION</u>			
Nonwoven Absorption	WSP 10.1 (08)	ERT 10.4 (02)	9073 - 6:2000
Rate of Sorption of Wiping Materials	WSP 10.2 (08)	IST 10.2 (01)	
Demand Absorbency	WSP 10.3 (08)	ERT 230.1 (02)	9073 – 12-:2002
Evaluation of Oil and Fatty Liquids Absorption	WSP 10.4 (08)	Original Method	
<u>3) ABRASION RESISTANCE</u>			
Inflated Diaphragm	WSP 20.1 (08)	Modified IST 20.1 (01)	
Flexing and Abrasion	WSP 20.2 (08)	Modified IST 20.2 (01)	
Double Rotary Platform (Tabor)	WSP 20.4 (08)	Modified IST 20.4 (01)	
Modified Martindale	WSP 20.5 (08)	Modified IST 20.5 (01)	
<u>4) BURSTING STRENGTH</u>			
Diaphragm Burst	WSP 30.1 (08)	Modified IST 30.1 (01)	
Burst	WSP 30.2 (08)	ERT 80.4 (02)	
<u>5) ELECTROSTATIC PROPERTIES</u>			
Surface Resistivity	WSP 40.1 (08)	IST 40.1 (01)	
Decay	WSP 40.2 (08)	IST 40.2 (01)	
<u>6) OPTICAL PROPERTIES</u>			
Opacity (INDA)	WSP 60.1 (08)	IST 60.1 (01)	
Brightness (INDA)	WSP 60.2 (08)	IST 60.2 (01)	
Brightness (EDANA)	WSP 60.3 (08)	ERT 100.1 (78)	
Opacity (EDANA)	WSP 60.4 (08)	ERT 110 1 (78)	
Fiber Orientation Distribution	WSP 60.5 (09)	New Document	

PSGTECHS COE INDUTECH
Harmonized Test Methods Nonwovens and Related Industries
Table of Contents

Description	Method Number	Equivalent Methods	ISO Reference
<u>7) PERMEABILITY</u>			
Air Permeability	WSP 70.1 (08)	Modified IST 70.1 (01)	9073 – 15:2007
Liquid Strike-Through	WSP 70.3 (08)	ERT 150.5 (02)	9073 – 8:1995
Water Vapor Transmission Rate Mocon/INDA	WSP 70.4 (08)	IST 70.4 (01)	
Water Vapor Transmission Rate Mocon/EDANA, Part 1	WSP 70.5 (08)	EDANA New Method	
Water Vapor Transmission Rate Lyssy/EDANA, Part 2	WSP 70.6 (09)	EDANA New Method	
Repeated Liquid Strike-Through Time	WSP 70.7 (09)	ERT 153.0 (02)	9073 – 13:2006
Wetback after Repeated Strike-Through	WSP 70.8 (09)	ERT 154.0 (02)	9073 – 14:2006
<u>8) REPELLENCY</u>			
Surface Wetting Spray	WSP 80.1 (09)	IST 80.1 (01)	
Penetration by Water (Rain Test)	WSP 80.2 (09)	IST 80.2 (01)	
Penetration by Water (Spray Impact)	WSP 80.3 (09)	Modified IST 80.2 (01)	9073 – 17:2008
Penetration by Saline Solution (Automated Mason Jar)	WSP 80.5 (09)	IST 80.5 (01)	
Water Resistance (Hydrostatic Pressure)	WSP 80.6 (09)	IST 80.6 (01)/IST 80.4 (01)	9073 – 16:2007
Penetration by Oil(Hydrocarbon Resistance)	WSP 80.7 (09)	IST 80.7 (01)	
Alcohol Repellency	WSP 80.8 (09)	IST 80.8 (01)	
Run-Off	WSP 80.9 (09)	ERT 152.2 (02)	9073 – 11:2002
Coverstock Wetback	WSP 80.10 (09)	ERT 151.3 (02)	
Wet Barrier Mason Jar	WSP 80.11 (09)	ERT 170.1 (02)	
<u>9) STIFFNESS</u>			
Cantilever Bending (INDA)	WSP 90.1 (09)	Modified IST 90.1 (01)	9073 – 7:1995
Stiffness Using the Gurley	WSP 90.2 (09)	Modified IST 90.2 (01)	
Handle-O-Meter	WSP 90.3 (09)	Modified IST 90.3 (01)	9073 – 9:1995
Cusick Drape	WSP 90.4 (09)	ERT 90.4 (99)	
Bending Length (EDANA)	WSP 90.5 (09)	ERT 50.5 (99)	
Drapeability	WSP 90.6 (09)	New Document	
<u>10) TEAR STRENGTH</u>			
Elmendorf	WSP 100.1 (09)	Modified IST 100.1 (01)	
Trapezoid Tear	WSP 100.2 (09)	IST 110.2 (01)/ ERT 70.4 (99)	9073 – 4:2008

PSGTECHS COE INDUTECH
Harmonized Test Methods Nonwovens and Related Industries
Table of Contents

Description	Method Number	Equivalent Methods	ISO Reference
Tongue Tear	WSP 100.3 (09)	Modified IST 100.3 (01)	
<u>11) TENSILE</u>			
Grab Tensile	WSP 110.1 (09)	Modified IST 110.1 (01)	9073 – 18:2007
Bond Strength	WSP 110.3 (09)	New Document	
Strip Tensile	WSP 110.4 (09)	IST 110.5 (02)/ERT 20.2 (89)	9073 – 3:1989
Ball Burst	WSP 110.5 (09)	Original Method	ISO/DIS 9073 – 5
<u>12) THICKNESS</u>			
Thickness (INDA)	WSP 120.1 (09)	Modified IST 120.1 (01)	
Thickness of Highloft	WSP 120.2 (09)	Modified IST 120.2 (01)	
Compression and Recovery, Highloft	WSP 120.3 (09)	IST 120.3 (01)	
Compression and Recovery, Highloft Using Weights and Plates	WSP 120.4 (09)	IST 120.4 (01)	
Compression and Recovery, Highloft High Temperature/High Humidity	WSP 120.5 (09)	IST 120.5 (01)	
Thickness (EDANA)	WSP 120.6 (09)	ERT 30.5 (99)	9073 – 2:1995
<u>13) WEIGHT</u>			
Mass per Unit Area	WSP 130.1 (09)	ERT 40.3 (90)	9073 – 1:1989
<u>14) BINDER/APPEARANCE/DRY CLEANING</u>			
Binder Distribution/Penetration	WSP 150.1 (09)	IST 50.1 (01)	
Appearance and Integrity of Highloft Batting	WSP 150.2 (09)	IST 50.2 (01)	
<u>15) LINTING</u>			
Particulate Shedding, Dry	WSP 160.1 (09)	IST 160.1 (01)/ERT 220.1(02)	9073 – 10:2003
Particulate Shedding, Wet	WSP 160.2 (09)	IST 160.2 (01)	
Fibrous Debris from Nonwovens	WSP 160.3 (09)	IST 160.3 (01)	
Fibrous Debris from Hydrophobic Nonwovens	WSP 160.4 (09)	IST 160.4 (01)	
<u>16) GEOTEXTILES</u>			
Conditioning	WSP 3.0 (09)	ERT 60.2 (99)/ISO 554	
Sampling	WSP 5.0 (09)	ERT 130.2 (89)	
Bursting Strength	WSP 30.1 (08)	Modified IST 30.1 (01)	

PSGTECHS COE INDUTECH
Harmonized Test Methods Nonwovens and Related Industries
Table of Contents

Description	Method Number	Equivalent Methods	ISO Reference
Air Permeability	WSP 70.1 (08)	Modified IST 70.1 (01)	
Cantilever Stiffness	WSP 90.1 (09)	Modified IST 90.1 (01)	
Trapezoid Tear	WSP 100.2 (09)	Modified IST 100.3 (01)	
Force and Elongation Grab	WSP 110.1 (09)	Modified IST 110.1 (01)	
Breaking Force Strip Test	WSP 110.4 (09)	IST 110.5 (02)/ERT 20.2 (89)	
Thickness	WSP 120.1 (09)	Modified IST 120.1 (01)	
Thickness of Highloft	WSP 120.2 (09)	Modified IST 120.2 (01)	
Mass per Unit Area	WSP 130.1 (09)	ERT 40.3 (90)	
<u>17) SUPERABSORBENT MATERIALS</u>			
pH of Polyacrylate (PA) Powders	WSP 200.2 (09)	ERT 400.2 (02)/IST 200.1(02)	17190 – 1:2001
Residual Monomers	WSP 210.2 (09)	ERT 410.2 (02)/IST 210.2(02)	17190 – 2:2001
Particle Size Distribution	WSP 220.2 (09)	ERT 420.2 (02)/IST 220.0(02)	17190 – 3:2001
Mass Loss Upon Heating	WSP 230.2 (09)	ERT 430.2 (02)/IST 230.0(02)	17190 – 4:2001
Free Swell Capacity in Saline, Gravimetric Determination	WSP 240.2 (09)	ERT 440.2 (02)/IST 240.2(02)	17190 – 5:2001
Fluid Retention Capacity in Saline, After Centrifugation	WSP 241.2 (09)	ERT 441.2 (02)/IST 241.2(02)	17190 – 6:2001
Absorption Under Pressure, Gravimetric Determination	WSP 242.2 (09)	ERT 442.2 (02)/IST 242.2(02)	17190 – 7:2001
Flow-rate, Gravimetric Determination	WSP 250.2 (09)	ERT 450.2 (02)/IST 250.0(02)	17190 – 8:2001
Density, Gravimetric Determination	WSP 260.2 (09)	ERT 460.2 (02)/IST260.2(02)	17190 – 9:2001
Extractable	WSP 270.2 (09)	ERT 470.2 (02)/IST 270.2(02)	17190 – 10:2001
Respirable Particles	WSP 280.2 (09)	ERT 480.2 (02)/IST 280.2(02)	17190 – 11:2001
Dust in Collection, Sodium Atomic Absorption/Emission Spectrometry	WSP 290.2 (09)	ERT 490.2 (02)/IST 290.2(02)	
<u>18) BACTERIAL</u>			
Filtration Efficiency	WSP 300.0 (09)	ERT 180.0.(89)	
Dry Bacterial Penetration	WSP 301.0 (09)	ERT 190.1 (02)	
Wet Bacterial Penetration	WSP 302.0 (09)	ERT 200.1 (02)	
<u>19) FORMALDEHYDE</u>			
Water Extraction Method I	WSP 310.1 (09)	ERT 210.1 (99)	
Stressed Extraction Method II	WSP 311.1 (09)	ERT 211.1 (99)	
Free Formaldehyde Determination	WSP 312.0 (09)	ERT 212.0 (96)	

PSGTECHS COE INDUTECH
Harmonized Test Methods Nonwovens and Related Industries
Table of Contents

Description	Method Number	Equivalent Methods	ISO Reference
HPLC, Method III			
Free Formaldehyde in Processing Method IV	WSP 313.0 (09)	ERT 213.0 (99)	
<u>20) ABSORBENT HYGIENE PRODUCTS</u>			
Syngina Method (Tampons)	WSP 350.1 (09)	ERT 350.0 (02)	
Ethanol – Extractable Organotin 1	WSP 351.0 (09)	ERT 360.0 (02)	
Synthetic Urine – Extractable Organotin II	WSP 352.0 (08)	ERT 361.0 (02)	
Absorption Before Leakage using an Adult Mannequin	WSP 354.0 (09)	Original Method	
<u>21) USEFUL METHODS</u>			
Surface Linting	WSP 400.0 (09)	Original Method	
Lamination Strength	WSP 401.0 (09)	Original Method	
Cup Crush	WSP 402.0 (09)	Original Method	
Thermal Barrier Performance	WSP 403.0 (09)	New Method	
<u>22) FLUSHABILITY</u>			
Toilet Bowl and Drainline Clearance	WSP 510.1 (09)	New Method	
Dispersability Shake Flask	WSP 511.1 (09)	New Method	
Dispersability Tipping Tube	WSP 511.2 (09)	New Method	
Dispersability Vortex	WSP 511.3 (09)	New Method	
Column Settling	WSP 512.1 (09)	New Method	
Aerobic Biodisintegration	WSP 513.1 (09)	New Method	
Aerobic Biodegradation	WSP 513.2 (09)	New Method	
Anaerobic Biodisintegration	WSP 514.1 (09)	New Method	
Anaerobic Biodegradation	WSP 514.2 (09)	New Method	
Toilet Bowl & Drainline Clearance	WSP 520.1 (09)	New Method	
Laboratory Household Pump-Compatability	WSP 521.1 (09)	New Method	
Laboratory Household Pump-Dispersability	WSP 522.1 (09)	New Method	
Slosh Box Disintegration	WSP 522.2 (09)	New Method	
Septic Tank Retention	WSP 523.1 (09)	New Method	
Activated Sludge Porous Pot Disintegration	WSP 524.1 (09)	New Method	
Lab. Untreated Discharge Disintegration	WSP 525.1 (09)	New Method	
Lab. Soil Biodisintegration	WSP 525.2 (09)	New Method	
Home Use Toilet and Drainline	WSP 530.1 (09)	New Method	
Household Sewage Pump	WSP 531.1 (09)	New Method	
Sewer Conveyance & Municipal Wastewater	WSP 532.1 (09)	New Method	

PSGTECHS COE INDUTECH
Harmonized Test Methods Nonwovens and Related Industries
Table of Contents

Description	Method Number	Equivalent Methods	ISO Reference
Onsite Treatment Compatibility	WSP 533.1 (09)	New Method	
Onsite Treatment Biodisintegration	WSP 533.2 (09)	New Method	
Field Soil Biodisintegration	WSP 534.2 (09)	New Method	
<u>23) FIBER GLASS MATS</u>			
Sampling and Lot Acceptance	WSP 600.0 (08)	TAPPI T-1006	
Sample Location for Fiber Glass Mat Sheets	WSP 601.0 (08)	TAPPI T-1007	
Test Conditions for Fiber Glass Mat	WSP 602.0 (08)	TAPPI T-1008	
Tensile Strength and Elongation at Break	WSP 603.0 (08)	TAPPI T-494	
Basis Weight	WSP 604.0 (08)	TAPPI T-410	
Moisture Content	WSP 605.0 (08)	TAPPI T-1012	
Loss on Ignition of Fiber Glass Mat	WSP 606.0 (08)	TAPPI T-1013	
Moisture Sensitivity of Fiber Glass Mat	WSP 607.0 (08)	TAPPI T-1014	
Uniformity of Fiber Glass Mats	WSP 608.0 (08)	TAPPI T-1015	
Average Fiber Diameter of Fiber Glass Mats	WSP 609.0 (08)	TAPPI T-1016	