



## NZWTA TEXTILE TESTING Price List Valid from 01 July 2018

<b>Carpet Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
ACCS Full Test Package (6 tests)		1 x 1.5 m, 6 tiles	\$741.00
Castor Chair Test (Baumberg Rollstuhl)	ISO TR 4918, BS DIN EN 985	1m <sup>2</sup> or min. 3 tiles	POA
Cold Water Staining	WNZ/TWC 256	0.25 x 0.25 m	\$85.00
Delamination	WNZ/TWC 264, AS/NZS 2111.16	0.6 x 0.6 m	\$186.00
Dimensional Stability			
- Mechanical Action	WNZ/TWC 128	0.6 m x 0.6 m	\$192.00
- to heat	BS 4682 Pt 3	1 m <sup>2</sup>	\$184.00
- to humidity	BS 4682 Pt 2	1 m <sup>2</sup>	\$184.00
- to water	BS 4682 Pt 4	1 m <sup>2</sup>	\$184.00
- to heat and water - combined	ISO 2551, BSEN 986	1 m <sup>2</sup>	\$265.00
Dynamic Loading	WNZ/TWC 124, BS ISO 2094	0.5 x 0.5 m	\$168.00
Electrical Resistance	AS 2834	1.2 m <sup>2</sup>	
- bulk			POA
- surface			POA
- combined			POA
Extractable Matter from Carpet Pile (various solvents available)	WNZ/TWC 136, AS 2001.3.4	0.2 x 0.2 m or 80g of fibre	\$168.00
Fibre Loss – Tetrapod	TWC 237	0.5 x 0.5 m	\$85.00
Fuzzing & Pilling (Usometer)	WNZ/TWC	0.5 x 0.5 m	\$141.00
Hexapod 1500, 8000	WNZ/TWC 247/251	0.5 x 0.5 m	\$240.00
Hot Water Texture Change	WNZ/TWC 257	0.25 x 0.25 m	\$85.00
Mass/Area Pile (by Dissection)	AS/NZS 2111.11, WNZ/TWC 21	0.5 x 0.5 m	\$211.00
Mass/Area (Shorn Pile Weight)	WNZ/TWC 234, AS/NZS 2111.4	1 x 1 m++	\$184.00
Pile Height	WNZ/TWC 20	1 x 1 m++	\$98.00
Pile Thickness	WNZ/TWC 142, AS/NZS 2111.5, ISO 1766	1 x 1 m++	\$98.00
Sleep Surfaces	AS/NZS 8811.1	1.0 x 1.0 m	\$107.00
Soiling Propensity	WNZ/TWC 267	0.5 x 0.5 m	POA
Staining Propensity	WNZ 282, AATCC 175	1.5 m <sup>2</sup>	\$380.00
Static General Stroll Test – AATCC	AATCC 134 per shoe type	1.5 m <sup>2</sup>	POA
Static Generation – ISO	ISO 6356 per shoe type	2 x 1 m	POA
Static Loading (Short Term)	ISO 3415, WNZ 124-A	0.5 x 0.5 m	\$155.00
Static Loading (Long Term)	ISO 3416, WNZ 124-B	0.5 x 0.5 m	\$179.00
Stripes/Streaks – detailed examination		Sufficient to show fault	POA
Tuft Bind	WNZ/TWC 202, AS/NZS 2111.15	0.5 x 0.5 m	\$136.00
Tufts/10cm	WNZ/TWC 140, AS/NZS 2111.9	1 x 1 m++	\$98.00
Underlay Package (7 tests)	AS 4288, BS 5808	1.5 m <sup>2</sup>	\$719.00
Underlays			\$75.00
- Cracking	AS 4288, BS 5808	0.1 x 0.1 m	
- Total Thickness	AS 4288, BS 5808	0.3 x 0.3 m	\$80.00
- Dynamic Loading	AS 4288, BS 5808	0.5 x 0.5 m	\$168.00
- Static Loading	AS 4288, BS 5808	0.5 x 0.5 m	\$174.00
- Tensile Strength	AS 4288, BS 5808	0.5 x 0.5 m	\$168.00
- Work of Compression – Before	AS 4288, BS 5808	0.5 x 0.5 m	\$161.00
- Work of Compression – After	AS 4288, BS 5808	0.5 x 0.5 m	\$161.00
VOC (Volatile Organic Compounds)	ASTM D5116, ISO 10580	80 x 50 cm x 2	POA
Weight Loss (Abrasion)	WNZ 283, BS EN 1813, ISO/FDIS 12951-2	0.25 x 0.25 m	\$192.00
WIRA Abrasion up to 20,000 rubs	WNZ/TWC 122	0.25 x 0.25 m	\$136.00
- each additional 10,000 rubs	WNZ/TWC 122	0.25 x 0.25 m	\$85.00



<b>Fabric Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Abrasion Resistance to 20,000 cycles	WNZ/TWC 112, AS 2001.2.25, ISO 12947.1	0.2 x 0.2 m	\$211.00
- each additional 20,000 cycles or parts thereof	BS EN ISO 12947, ASTM D4966		\$169.00
Air Permeability	BS EN ISO 9237, AS 2001.2.34	0.25 m <sup>2</sup>	\$155.00
Crease Recovery	BS EN 22313 AATCC 128, ISO 9867	0.25 m <sup>2</sup>	\$143.00
Drape, bending length	BS 5058, BS3356, AS 2001.2.9	0.25 m <sup>2</sup>	\$161.00
Dry Cleaning Shrinkage (3 cycles)	AS 2001.5.7	Knitwear double sided	
- extra cycles are additional cost		0.4 x 0.4 m	\$85.00
		Fabrics 0.5 x 0.5 m	
Electrical Resistance of Fabric	BS 6524, BS 2050 EN 1149.1 – washes extra	1 m <sup>2</sup>	POA
Ends and Picks (Courses and Wales)	BS EN 1049-2, AS 2001.2.5 ISO 7211-2	0.25 m <sup>2</sup>	\$192.00
Extractable Matter from Fabric	WNZ/TWC 136, AS 2001.3.4	20 g	\$168.00
Fast test		1 m	POA
Flex test	AS 4878.9, ISO 7854, AS 1441.6 (200,000 cycles)	0.2 x 0.2 m	\$206.00
Garment Damage			
- Verbal			\$83.00
- Written comment on results			\$206.00
Heat Shrinkage	ISO 17493	1m <sup>2</sup>	POA
Hydrostatic Head	BS 2823, AS 2001.2.17, BS EN 20811	0.5 m <sup>2</sup>	\$323.00
Hygral Expansion	IWTO 50-05	0.25 m <sup>2</sup>	\$107.00
Linear Density of Yarn from Fabric	BS 2865, ISO 7211-5	0.25 m <sup>2</sup>	\$192.00
Loop Slippage	WRONZ TM ( before and after washing )	0.5 m <sup>2</sup>	\$85.00
Mass/Unit Area	AS 2001.2.13, BS 2471, WNZ/TWC 13	0.25 m <sup>2</sup>	\$112.00
Melting Temperature	ISO 3146	0.25m <sup>2</sup>	POA
Moisture Vapour Permeability	AS 2001.2.24	0.25 m <sup>2</sup>	\$222.00
Non-Recoverable Extension (Fabric and Blankets)	TWC 179, TWC 248 BS 4294, BS 4952	0.25 m <sup>2</sup>	\$161.00
Pilling (Atlas)	ASTM D3512	0.4 x 0.4 m	\$168.00
Pilling (ICI)	WNZ/TWC 152, BS 5811, ISO 12945.1	0.4 x 0.4 m	\$211.00
Pilling (Martindale)	WNZ/TWC 196	0.4 x 0.4 m	\$125.00
Pilling (Swiss Test) – (after washing extra charge)	SN 198525, ISO 12945.2	0.4 x 0.4 m	\$181.00
Resistance to Penetration by Liquids (per chemical)	BS EN 368	0.5 x 0.5 m	\$403.00
Seam Slippage or Strength	AS 2001.2.22, WNZ/TWC 117, BS 3320, AS 201.2.20, ISO 13935 strength , ISO 13936 slippage	1 m <sup>2</sup>	\$184.00
Shrinkage (Relaxation)	AS 2001.5.4, BS EN ISO 6330, WNZ/TWC 31	Knitwear double sided	
		0.4 x 0.4 m Fabrics 0.5 x 0.5 m	\$107.00
Shrinkage (Felting & Relaxation)	AS 2001.5.4, BS EN ISO 6330, WNZ/TWC 31 – 3-5 cycles	Knitwear double sided	
		0.4 x 0.4 m Fabrics 0.5 x 0.5 m	\$192.00
Slide Fastener Strength (zips)			
- Puller Attachment	BS 3084, AS 2332	At least 10 zips	\$98.00
- Lateral Strength	BS 3084, AS 2332	At least 10 zips	\$103.00
- Top Stitch or closed end	BS 3084, AS 2332	At least 10 zips	\$98.00
- Security of interlocking elements	BS 3084, AS 2332	At least 10 zips	\$98.00
- Slider Locking	BS 3084, AS 2332	At least 10 zips	\$98.00
- Durability (opening & closing 500 cycles)	WRONZ TM	At least 10 zips	\$98.00
Spirality (before/after steam)	BS 2819, ISO 16322.1	0.25 m <sup>2</sup>	\$98.00
Strength (Burst)	AS 2001.2.4, WNZ/TWC 29, BS EN ISO 13938-1	0.4 x 0.4 m	\$98.00
Strength (Tensile)	AS 2001.2.3, WNZ/TWC 4, BS EN ISO 13934, ISO 5081	1 m <sup>2</sup>	\$168.00
Strength (Tear)	WNZ/TWC 172, AS 2001.2.10, ISO 4674, ISO 13937,2,3,4 AS 2001.2.8 Elmendorf	1 m <sup>2</sup>	\$168.00
Thickness of Fabric	ISO 5084, AS 2001.2.15	0.25 m <sup>2</sup>	\$107.00
Thermal Resistance (Togmeter)	ISO 11092 dry and wet	3 x 500 mm diameter squares per state	POA
Tumble Drying (If done separately)			\$50.00
Ultra Violet (UV) Protection Factor	AS/NZS 4399	1.0 x 1.0 m	POA
Washing Charge (1 wash)			\$50.00
Water Penetration	AS 2001.2.18	0.5 x 0.5 m	\$107.00
Water and Oil Repellency (Droplet Test)	WNZ/TWC 258, AATCC 118	0.25 m <sup>2</sup>	\$107.00
Water Repellency (Spray Test)	AS 2001.2.16, AATCC 22, ISO 4920	0.25 m <sup>2</sup>	\$85.00
Water Repellency (WIRA Shower, Spray Test)	BS 5066	0.25 m <sup>2</sup>	\$217.00
Yarn Crimp from Fabric	BS 2863, ISO 7211-3	0.25 m <sup>2</sup>	\$192.00
Yarn Twist from Fabric	BS 2864, ISO 7211-4	0.25 m <sup>2</sup>	\$222.00



<b>Aircraft Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Kerosene Burner (sample preparation additional) - additional	FAR 25.853(c)	3 m	POA
Vertical Flame Test - Report Other Vertical or Horizontal Tests	FAR 25.853(a)	0.5 m	POA

  

<b>Chemical Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Alkali Solubility	IWTO-4	20 g	\$219.00
AZO Dyes	EN 14362.1, ISO 17234	50g	POA
Formaldehyde	ISO 14184.1	0.2 x 0.2 m	POA
Fluidity	AS 2001.3.6	40g	POA
Insect-resist Agent (Permethrin)	CAMO-02	10 g or 0.2 x 0.2 m	POA
Insect-resist Agent (Bifenthrin) (other agents by arrangement)	CAMO-02	10 g or 0.2 x 0.2 m	POA
pH	IWTO-2	20 g	\$44.00
Urea Bisulphate Solubility	IWTO-11	20 g	\$149.00
Insect Bioassays	Various Species		POA

  

<b>Fastness Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Chlorine Bleaching, Colour Fastness Washing with Bleach - additional	AS 2001.4.11, BS EN 20105-N01, AS 2001.4.15	0.2 x 0.2 m+	\$143.00
Chlorinated Water - additional	AS 2001.4.5, ISO 105-E03	0.2 x 0.2 m+	\$131.00 \$143.00
Colour Fastness to Light (Xenon Arc) incl. first fade - additional	WNZ/TWC 133, ISO 105-B02, AS 2001.4.B02	0.4 x 0.4 m+	\$217.00 \$143.00
Dry Cleaning - per solvent	AS 2001.4.16	0.2 x 0.2 m+	\$122.00
Perspiration (per test - acid or alkaline)	AS 2001.4.17, WNZ/TWC 174, 175, ISO 105-E04	0.2 x 0.2 m+	\$107.00
Photobleaching	WRONZ TM		\$184.00
Rubbing	WNZ/TWC 165, 232, AS/NZS 2111.19.1, AS 2001.4.3	0.4 x 0.4 m+	\$85.00
Sea Water	AS 2001.4.E02, ISO 105-E02	0.2 x 0.2 m+	\$138.00
Shampooing	AS/NZS 2111.19.2, WNZ/TWC 233	0.4 x 0.4 m+	\$112.00
Washing	WNZ/TWC 193, 250, ISO 105-C06, AS 2001.4.15	0.2 x 0.2 m+	\$98.00
Water	WNZ/TWC 6, AS 2001.4.E01	0.2 x 0.2 m+	\$98.00

+ if multicoloured, enough to test all colours

  

<b>Flammability Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Children's Nightwear	AS/NZS 1249 (can incl ISO 6941 & ISO 10047)	1.5 m	POA
Children's Nightwear conformance/classification report	AS/NZS 1249		\$114.00
Cigarette and Match Test	IMO A652(16), BS 5852.1, BS 7177, BS 6807	1 m	\$240.00
Cone Calorimeter	AS/NZS 3837, ISO 5660	0.5 m <sup>2</sup>	POA
Conformance to Size (Nightwear Category 2)	AS/NZS 1249	1 Garment	\$114.00
Ease of Ignition	AS 2755.1, BS EN ISO 6940	0.5 m	POA
Flame Spread Properties, Surface or Edge	ISO 6941, as 2755.2, Cal. T.B. 1/7 NFPA 701, BS EN ISO 15025	1.5 m	POA
Flammability of Materials	AS 1530.2	1.5 m	POA
Flammability of Materials	AS 1530.3	2 x 1.5 m	POA
Flame Propagation of Plastics	AS 2122.1	255 x 20 x 20 mm( 30 )	POA
Heat Transmission	Heat Transfer Index to flame / radiation	0.5 m	POA
Hot Metal Nut Test	BS 4790	0.5 m <sup>2</sup>	\$217.00
Larger Ignition Sources (per crib)	NZS 8709 Pt 2, BS 5852-2, BS 7177	1 m <sup>2</sup>	\$330.00
Radiant Panel Test	ASTM E648	1.1 m <sup>2</sup>	POA
Radiant Panel Test (Includes smoke Emission)	ISO 9239		POA
Surface Burning (one side)	AS 2755.3, ISO 10047	0.5 m	POA
Tablet Test (Pill Test)	ISO 6925, DOC FF1.70, AS/NZS 2111.18	0.5 m <sup>2</sup>	\$180.00
Washing Charge for Flammability (2 cycles)			\$107.00



<b>Laundry &amp; Drycleaning Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Drycleaning and Laundry Test Piece Programme	Per test piece		\$112.00
Washing Powder Tests			
- Single Wash	WRONZ TM	50 g	\$131.00
- Multiple Washes (per wash)	WRONZ TM	50 g	\$45.00
<b>Safety Products</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Garment Design	NZFOA	1 garment	\$277.00
Background fabric material	AS/NZS 1906.4	0.5 x 0.5 m	POA
Reflective Tape	AS/NZS 1906.4	3m	POA
Road Cones	NZTA COPTTM	1 product	\$508.00
<b>Yarn Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Evenness (Uster)	ASTM D1425, IWTO 18	10 Bobbins	\$98.00
Extractable Matter from Yarn	TWC/WNZ 136, AS 2001.3.4	20 g	\$168.00
Fibre ID (quick test) - per component (qualitative)	WNZ/TWC 155, AS 2001.7	10 g	\$89.00
Fibre ID - 2 components (quantitative)	WNZ/TWC 155, AS 2001.7	20 g	\$217.00
Fibre ID - 3 components (quantitative)	WNZ/TWC 155, AS 2001.7	20 g	\$593.00
Fibre ID , cotton/linen blends		20 g	POA
Fibre ID , specialty animal fibres /wool	ISO 17751	20 g	POA
Friction	WRONZ TM	1 Cone	POA
Linear Density (yarn count from packages)	BS EN ISO 2060, AS 2001.2.23	10 Bobbins	\$161.00
Strength & Extensibility - 2-Fold	ISO 2062, AS 2001.2.7	10 Bobbins	\$122.00
Strength & Extensibility – Singles	ISO 2062, AS 2001.2.7	10 Bobbins	\$192.00
Twist (folding)	BS EN ISO 2061, AS 2001.2.14	10 Bobbins	\$98.00
Twist (singles)	BS EN ISO 2061, AS 2001.2.14	10 Bobbins	\$181.00
Yarn Bulk	WRONZ TM	4 Cones	\$155.00
Yarn Set (per cycle)	WRONZ TM	1 Cone	\$131.00
<b>Woolscour Effluent Analysis Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Dirt (as a separate determination)	WRONZ TM	50 ml	\$211.00
Dirt (part of total solids/grease)	WRONZ TM	50 ml	\$85.00
Suint and Dissolved Solids	WRONZ TM	50 ml	\$136.00
Suspended Solids	WRONZ TM	500 ml	\$131.00
Top Grease	WRONZ TM	100 ml	\$136.00
Total Grease	WRONZ TM	50 ml	\$85.00
Total Solids	WRONZ TM	50 ml	\$85.00
<b>Wool Grease Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Typical Analysis (Includes Acid value, ashing, calcium, 1 hour volatiles and overnight volatiles tests).	WRONZ TM	40 g	\$420.00
2 hour Volatiles	WRONZ TM	40 g	\$86.00
1 hour Volatiles	WRONZ TM	40 g	\$99.00
Overnight Volatiles	WRONZ TM	40 g	\$99.00
Acid Value	WRONZ TM	40 g	\$75.00
Ashing of Woolgrease	WRONZ TM	40 g	\$99.00
Calcium	WRONZ TM	40 g	\$104.00
Peroxide Value	WRONZ TM	40 g	\$99.00
<b>Woolpack Tests</b>	<b>Test Method</b>	<b>Minimum Sample Size</b>	<b>Test Fee (excl. GST)</b>
Synthetic Packs (full tests)	AS/NZS 4546	1 Pack	\$886.00
Performance Specifications only	AS/NZS 4546	1 Pack	\$839.00



# NZWTA

**Additional Charges**

1. Other standard tests not listed may be undertaken – fees are available on request.
2. Retests are charged as per original.
3. Urgent requests will be charged a surcharge of 30% whereby NZWTA will initiate testing immediately on receipt of the samples. This service time is dependent on the actual testing time.
4. Any freight costs incurred by NZWTA will be recharged at cost.
5. Reissues will be charged at \$16.20 per report.