

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd – trading as AWTA Product Testing
ABN 43 006 014 106

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PRODUCT TESTING FEES PRICE LIST STRUCTURE Effective 1 July 2016 to 30 June 2017

		Fee \$	Total Inc. GST
FEES APPLICABLE TO CHEMICAL TESTING			
F12	pH of Extract	97.00	106.70
F17A	Fibre Identification - Qualitative	58.00	63.80
F17B	Analysis of Fibres - 1 Fibre	148.00	162.80
F17B2	Analysis of Fibres – 2 Fibres	203.00	223.30
F17B3	Analysis of Fibres – 3 Fibres	349.00	383.90
F19	Melting Point of fibres	163.00	179.30
F20	Fluidity of Cellulosic Fibres	266.00	292.60
F26	Free Formaldehyde Content	323.00	355.30
F26_2	Free Formaldehyde Content - subsequent samples submitted at same time)	169.00	185.90
F26A	VOC	1425.00	1567.50
F26C	Azo Dyes	163.00	179.30
F26D	APEO Testing	249.00	273.90
F27	Soluble Chromium Content of Wool	116.00	127.60
T37A	Insect Resistance (IR) Agent	188.00	206.80
FEES APPLICABLE TO COLOURFASTNESS TESTING			
T35A1	Colourfastness to Light - Xenon Arc Method	138.00	151.80
T35B	Colourfastness to Light - MBTF Method	113.00	124.30
T35Q	QUV - per hour	6.00	6.60
T36	Colourfastness to Washing	73.00	80.30
T50	Colourfastness to Water	64.00	70.40
T51A	Colourfastness to Perspiration - Acid	63.00	69.30
T51B	Colourfastness to Perspiration - Alkaline	63.00	69.30
T52A	Colourfastness to Rubbing - Fabric	56.00	61.60
T52B	Colourfastness to Rubbing - Carpet	56.00	61.60
T53	Colourfastness to Dry Cleaning Solvents	81.00	89.10
T54	Colourfastness to Sea Water	83.00	91.30
T55	Colourfastness to Chlorinated Water	108.00	118.80
T55B	Colourfastness to Chlorine Bleaching	108.00	118.80
T56	Colourfastness to Shampoo Solution	72.00	79.20
T64A	Colourfastness to Water Spotting	68.00	74.80

Fee
\$ Total
Inc. GST

FEES APPLICABLE TO ELECTROSTATIC TESTING

T39	Electrostatic Propensity Stroll - one sole	418.00	459.80
T39B	Surface Resistance – Gigaohm	95.00	104.50
T39C	Bulk Resistance- Gigaohm	95.00	104.50

FEES APPLICABLE TO FLAMMABILITY TESTING

Apparel Fabrics

Children's Nightwear Test for AS/NZS 1249

T16	Garment Evaluation	117.00	128.70
T16/J	Label Durability	80.00	88.00
T16LA	Label Durability and Assessment	115.00	126.50
T17G	Flame Spread Test (Required before and after Laundering)	117.00	128.70
T17H	Surface Burn Test - (After Laundering)	111.00	122.10
T17I	Laundering	65.00	71.50

The tests required will depend on the fabric and garment construction.

Protective Clothing

T17GL	Limited Flame Spread	117.00	128.70
T45E	Thermal Protection Properties/Heat Transfer Index	241.00	265.10
T45ER	Heat Transfer Radiation	536.00	589.60
T45EF	Strength loss after heat transfer radiation	660.00	726.00

Building / Drapery / Upholstery / Wall and Ceiling Linings / Floor Coverings / Ductwork / Insulation

T17C	Cigarette Test for Furniture Fabrics	175.00	192.50
T17D	Match Flame Equivalent Test for Upholstery Fabrics	175.00	192.50
T17DC	Crib tests (4 - 7) single mock up crib	409.00	449.90
T17DD	Crib Test (4 - 7) per 2 complete assembled seats	806.00	886.60
T18A	AS1530.2 Flammability of Materials	460.00	506.00
T18B	AS/NZS1530.3 Early Fire Hazard Properties	869.00	955.90
T18BG	AS/NZS 1530.3 Guidance Test for Early Fire Hazard (2 specimens)	362.00	398.20
T18D	UL 181 burn test (ducting)	499.00	548.90
T45A	Methenamine Pill Method	123.00	135.30
T45B	Hot Nut Test for Carpets or Underlay	141.00	155.10
T45C	Critical Heat Flux (AS/ISO 9239.1, ISO 9239.1)	422.00	464.20
T45CG	Critical Heat Flux (AS/ISO 9239.1, ISO 9239.1) guidance test (1 specimen)	170.00	187.00
T45G	Cone Calorimeter (AS/NZS 3837, ISO 5660)	1087.00	1195.70
T45GG	Cone Calorimeter (AS/NZS 3837, ISO 5660) guidance test (1 specimen)	325.00	357.50

Transport

T17A	Vertical Flammability Test, aircraft (FTMS 191-5903, FAR 25.853)	170.00	187.00
T17AK	Kerosene Burn test, aircraft cushions (FAR 25.853 Appendix F)	1959.00	2154.90
T17B	Horizontal Flammability Test, automotive (eg MVSS 302)	318.00	349.80

FEES APPLICABLE TO LAUNDRY SWATCH EVALUATION

T99A	EMPA #105 Soiled Test Swatch Purchase	66.00	72.60
T99B	EMPA 105 - Colour Evaluation	82.00	90.20
T99D	Total Damage Evaluation	113.00	124.30
T99E	Chemical Damage Evaluation	253.00	278.30
T99F	EMPA 224 - Colour Evaluation	82.00	90.20
T99G	Ash Content	122.00	134.20

Fee
\$ Total
Inc. GST

FEES APPLICABLE TO MECHANICAL TESTING

Carpets

F26A	VOC	1425.00	1567.50
T31	Extractable Matter - Pile Yarn	119.00	130.90
T32	Surface Pile Mass (pile above substrate) - standard atmosphere	111.00	122.10
T33A	Total Thickness	57.00	62.70
T33B	Pile Thickness - with surface pile mass	56.00	61.60
T33D	Pile Thickness - as separate test	81.00	89.10
T34	Tuft Withdrawal Force - each type	101.00	111.10
T35A2	Colourfastness to Light - Xenon Arc Method	138.00	151.80
T37A	Insect Resistance (IR) Agent	188.00	206.80
T40A	Tufts per Unit Area	62.00	68.20
T40B	Total Mass per Unit Area	80.00	88.00
T44AG	Dynamic Loading (ACCS Method) - WIRA	83.00	91.30
T44D2	Appearance Retention - Hexapod Tumbler Method (2000 and 8000 cycles)	154.00	169.40
T44E	Pilling & Fuzzing - Usometer	197.00	216.70
T45C	Critical Heat Flux (AS/ISO 9239.1)	422.00	464.20
T57	Abrasion Resistance- WIRA Method - 20,000 cycles	111.00	122.10
T58	Bond Strength	121.00	133.10
T59A	Dimensional Stability - Mechanical Forces	151.00	166.10
T59B	Dimensional Stability - Ambient Humidity	114.00	125.40
T59C	Dimensional Stability - Heat & Water	168.00	184.80
T62B	Static Loading - Long Term (AS Method)	112.00	123.20
T62BG	Static Loading - Long Term (ACCS Method)	83.00	91.30
T86	Soiling Propensity	182.00	200.20
T86D	Stain Resistance	172.00	189.20
P003	ACCS Performance Update Package	360.00	396.00
P007	ACCS Carpet Package – Full	592.00	651.20

Hospital & Healthcare Carpet Program

A full package of tests is available specifically for evaluation of carpets for healthcare facilities. Please enquire with our technologists for details to suit your requirements.

Ductwork (AS 4254.1)

T18B	AS/NZS1530.3 Early Fire Hazard Properties	869.00	955.90
T18D	UL 181 burn test (ducting)	499.00	548.90
T18E	Mould Growth and Humidity	357.00	392.70
T18F	Temperature	343.00	377.30
T18G	Puncture	68.00	74.80
T18H	Static Load	131.00	144.10
T18I	Impact	131.00	144.10
T18J	Pressure	353.00	388.30
T18K	Collapse	353.00	388.30
T18L	Tension	131.00	144.10
T19H	Insulation R Value	1675.00	1842.50

		Fee	Total
		\$	Inc. GST
Fabrics			
F28	Comfortmeter	77.00	84.70
F29	Handlemeter	169.00	185.90
T01B	Linear Density from yarns from Woven Fabrics (warp and weft)	191.00	210.10
T01C	Linear Density of Yarns from Knitted Fabrics	191.00	210.10
T06	Mace Snagging	139.00	152.90
T07A	Pilling Resistance - ICI Pill Box Method	112.00	123.20
T07B	Pilling Resistance - Martindale Method	64.00	70.40
T07C	Pilling Resistance - Random Tumble Method	116.00	127.60
T08A	Mass per Unit Area	73.00	80.30
T08B	Fabric Width	49.00	53.90
T09	Threads per Unit Length -(both directions)	72.00	79.20
T10	Fabric Thickness	77.00	84.70
T11A	Breaking Load - Ravelled Strip	121.00	133.10
T11B	Breaking Load – Grab Test	112.00	123.20
T11FA	Breaking Force - Webbing (As Received and After UV Exposure)	1023.00	1125.30
T12B	Stretch and Recovery	176.00	193.60
T13A	Yarn Slippage - standard Seam / Constant Load	142.00	156.20
T13B	Seam Strength	130.00	143.00
T13C	Seam Slippage Resistance	140.00	154.00
T13D	Seam Fatigue	233.00	256.30
T14	Bursting Pressure - Mullen - (Knits and non-woven fabrics)	98.00	107.80
T14B	Bursting Force Ball	121.00	133.10
T15A	Tearing - Wing Rip Method	116.00	127.60
T15C	Tearing - Tongue	129.00	141.90
T15E	Tearing - Elmendorf	113.00	124.30
T20A	Abrasion Test - Martindale Method - up to 30,000 cycles	123.00	135.30
T20AX	- additional charge per 20,000 cycles over 30,000	49.00	53.90
T20B	Abrasion Flex - Stoll	113.00	124.30
T20C	Abrasion Flat - Stoll	113.00	124.30
T20F	Taber Abrasion or Snagging	349.00	383.90
T20FA	Taber Abrasion - Short Term	181.00	199.10
T20W	Abrasion Test- Wyzenbeek (50,000 cycles)	152.00	167.20
T21	Courses and Wales - Knitted Fabric	87.00	95.70
T23B	Dimensional Change - Relaxation	112.00	123.20
T23E	Dimensional Change - Dry Cleaning (laboratory)	340.00	374.00
T23EC	Dry Cleaning - Commercial	72.00	79.20
T24A	Dimensional Change- Machine Washability	101.00	111.10
T24X	Washing - each additional stage	16.00	17.60
T28	Air Permeability	139.00	152.90
T29A	Water Penetration - Cone	79.00	86.90
T29B	Hydrostatic Head	140.00	154.00
T29C	Water Repellency - Spray	112.00	123.20
T29D	Oil Repellency	109.00	119.90

		Fee \$	Total Inc. GST
Fibre Tests			
F01C	Fibre Diameter - Airflow (Wool Top Sliver)	59.00	64.90
F01L	Fibre Diameter - Laserscan (Wool Top Sliver)	30.00	33.00
F02	Fibre Diameter - Projection Microscope	195.00	214.50
F03	Moisture Regain	72.00	79.20
F05	Fibre Length - Single Fibre Length - Scoured Wool	297.00	326.70
F06	Fibre Length- Almeter Test - Wool Top Sliver	77.00	84.70
F16	Sliver Evenness	107.00	117.70
F18A	Neps in Wool top sliver	81.00	89.10
F18AB	Neps and Vegetable Matter in Wool Top	81.00	89.10
F18B	Vegetable Matter in Wool top sliver	81.00	89.10
F18C	Dark Fibre in Wool Top - IWTO 24 - not suitable for Open Top	81.00	89.10
F26D	APEO Testing	249.00	273.90
Geotextiles			
T08AG	Mass per Unit Area of Fabric (AS 3706.1)	108.00	118.80
T08B	Width of Fabric (AS 2001.2.12)	49.00	53.90
T10	Method of measurement of Textiles Fabrics – Thickness	77.00	84.70
T11BG	Breaking Force and Extension of Textile Fabric (AS 2001.2.3)	150.00	165.00
T11E	Tensile Properties - wide strip method (AS 3706.2)	150.00	165.00
T13B	Seam Strength (AS 3706.6)	130.00	143.00
T14D	Puncture Resistance - drop cone method (AS 3706.5)	165.00	181.50
T14P	Burst Strength - CBR plunger method (AS 3706.4)	138.00	151.80
T15D	Tearing Strength -trapezoidal method (AS 3706.3)	129.00	141.90
T29P	Permittivity (AS 3706.9)	612.00	673.20
T29PS	Pore Size Distribution - dry sieving method (AS 3706.7)	737.00	810.70
Leather			
F27	Soluble Chromium	116.00	127.60
T11L	Breaking Force - Leather	112.00	123.20
T15L	Tear Strength	129.00	141.90
T17C	Cigarette Test for Furniture Fabrics	175.00	192.50
T17D	Match Flame Equivalent Test for Upholstery Fabrics	175.00	192.50
T17DC	Crib tests (4 - 7) single mock up crib	409.00	449.90
T17DD	Crib Test (4 - 7) per 2 complete assembled seats	806.00	886.60
T52L1	Velsic Rub Fastness EN ISO 11641 (Dry/Wet)	84.00	92.40
T52L2	Velsic Rub Fastness EN ISO 11640 (Perspiration)	84.00	92.40
T90D	Flex Cracking Resistance	139.00	152.90
T90L	Flexing Endurance	214.00	235.40
Health Care - Woven Fabrics (Polyester/Cotton)			
T08A	Mass per Unit Area	73.00	80.30
T11A	Breaking Force	121.00	133.10
T09	Threads per Unit Length	72.00	79.20
T09W	Weave Analysis	72.00	79.20
T35B	Colourfastness to Light	113.00	124.30
T50	Colourfastness to Water	64.00	70.40
T51A	Colourfastness to Perspiration - Acid	63.00	69.30
T51B	Colourfastness to Perspiration - Alkaline	63.00	69.30
T52A	Colourfastness to Rubbing	56.00	61.60
T36	Colourfastness to Washing	73.00	80.30
T24A	Dimensional Change	101.00	111.10
T07BW	Pilling after Wash	103.00	113.30

		Fee \$	Total Inc. GST
Health Care - Woven Fabrics (Terry) (AS3789.6)			
T08A	Mass per Unit Area	73.00	80.30
T11A	Breaking Force	121.00	133.10
T09	Threads per Unit Length	72.00	79.20
T09P	Pile Ratio	72.00	79.20
T35B	Colourfastness to Light	113.00	124.30
T50	Colourfastness to Water	64.00	70.40
T51A	Colourfastness to Perspiration - Acid	63.00	69.30
T51B	Colourfastness to Perspiration - Alkaline	63.00	69.30
T52A	Colourfastness to Rubbing	56.00	61.60
T36	Colourfastness to Washing	73.00	80.30
T24A	Dimensional Change	101.00	111.10
F20	Fluiding	266.00	292.60
Safety / High Visibility Garments (AS/NZS 4602.1)			
T28A	UPF Factor	195.00	214.50
T28F	Fluorescent Colour Measurement	150.00	165.00
T28FD	Fluorescent Colour Measurement Durability	243.00	267.30
T28G	Garment Evaluation	184.00	202.40
T28H	Non Fluorescent Colour Measurement	110.00	121.00
T35B	Colourfastness to Light - MBTF	113.00	124.30
T36	Colourfastness to Washing	73.00	80.30
T51A	Colourfastness to Perspiration - Acid	63.00	69.30
T51B	Colourfastness to Perspiration - Alkaline	63.00	69.30
Retroreflective Materials (AS/NZS 1906.1 / 1906.4)			
T26A	CIL at all angles	150.00	165.00
T26A1	Retroreflected Colour	225.00	247.50
T26B	CIL after UV	248.00	272.80
T26C	CIL after washing	245.00	269.50
T26D	CIL after Abrasion	181.00	199.10
T26E	CIL after Temperature	181.00	199.10
T26F	CIL During Rainfall	181.00	199.10
P025	AS/NZS 1906.4 Class R, all test package	1010.00	1111.00
T26G	Retroreflectance of Horizontal Coatings	233.00	256.30
T26R	Calibration of Reflectometer	898.00	987.80
Sarking Materials (AS/NZS 4200.1)			
T11P	Breaking Force	121.00	133.10
T14B	Bursting Force – Ball Burst	121.00	133.10
T15P	Edge Tear Resistance	129.00	141.90
T18A	Flammability of Materials - AS1530.2	460.00	506.00
T29ES	Water Vapour Transmission	149.00	163.90
T94A	Resistance to Dry Delamination	153.00	168.30
T94B	Resistance to Wet Delamination	153.00	168.30
T94C	Shrinkage	689.00	757.90
T94D	Resistance to Water Penetration	153.00	168.30
T94E	Emittance (per face)	319.00	350.90
T94F	Water Absorbency	153.00	168.30
T94H	Surface Corrosion and Wet Delamination	704.00	774.40

		Fee \$	Total Inc. GST
Underlay Tests			
T81A	Thickness	50.00	55.00
T81B	Mass per Unit Area	83.00	91.30
T81J	Breaking Load/Extension at Break	110.00	121.00
T81K	Static Loading	83.00	91.30
T81L	Dynamic Loading	83.00	91.30
T81M	Work of Compression	195.00	214.50
P041	Synthetic Underlay Package	625.00	687.50

Yarn

T01A	Linear Density of Yarns from Packages	77.00	84.70
T02A	Twist - Singles	130.00	143.00
T02B	Twist - Folded	97.00	106.70
T03B	Yarn Breaking Load - Instron Method	148.00	162.80
T04	Yarn Unevenness	106.00	116.60

FEES APPLICABLE TO THERMAL TESTING

T19DN	Sweating Guarded Hot Plate - Dry	459.00	504.90
T19WN	Sweating Guarded Hot Plate - Wet	491.00	540.10
T19F	Insulation, R value formed shapes/reflective (AS/NZS 4859.1 / ASTM C518)	691.00	760.10
T19H	Insulation, R value low density fibrous (AS/NZS 4859.1 / ASTM C653)	1675.00	1842.50

FEES APPLICABLE TO RAPITEST® TESTING

R01B	Linear Density of Yarns from Woven Fabrics (single yarn count)	81.00	89.10
R01C	Linear Density of Yarns from Knitted Fabric (Weft knit only)	81.00	89.10
R07A	Pilling - Knitted- ICI Pill Box	87.00	95.70
R07AT	Pilling - Fleecy/Interlock	169.00	185.90
R07B	Pilling - Woven- Martindale	56.00	61.60
R08A	Mass per Unit Area	40.00	44.00
R09	Threads per Unit Length	46.00	50.60
R11A	Breaking Load - Ravelled Strip	88.00	96.80
R15A	Tear Strength -Wing Rip	57.00	62.70
R15E	Tear Strength -Elmendorf	39.00	42.90
R20A	Abrasion Test - Martindale (20,000 cycles)	72.00	79.20
R24	Shrinkage - Top Loading	84.00	92.40
R24AW	Shrinkage - Wascator	84.00	92.40
R24T	Shrinkage - Target	88.00	96.80
R29B	Hydrostatic Head	63.00	69.30
R35B	Colourfastness- Light (MBTF)	73.00	80.30
R36	Colourfastness - Washing	68.00	74.80
R50	Colourfastness - Water	64.00	70.40
R51A	Colourfastness - Perspiration (Acid)	63.00	69.30
R51B	Colourfastness - Perspiration (Alkali)	63.00	69.30
R52A	Colourfastness - Rubbing	42.00	46.20
R53	Colourfastness - Drycleaning Solvents	81.00	89.10

Fee Total
\$ Inc. GST

FEES APPLICABLE TO WEATHERING / EXPOSURE TESTING

T14G	Gravelometer	277.00	304.70
T35Z	Xenon Arc Weathering (price depends on exposure period)	POA	
T35D1	Townsville Exposure	POA	
T84	Fogging	288.00	316.80
T87	Hydrogen Sulphide Staining	160.00	176.00
T89A	Oven Ageing - 1 Week	160.00	176.00
T89B	Oven Ageing - 2 Weeks	322.00	354.20
T89C	Oven Ageing - 4 Weeks	643.00	707.30
T89E	Environmental Chamber - Less than 1 week - per day	580.00	638.00
T89Q	Salt Fog - per hour	5.00	5.50

TECHNICAL INVESTIGATIONS AND CONSULTATIONS

Senior Management and/or Expert Witness	428.00	470.80
Management and/or Professional Staff	249.00	273.90
Laboratory Technicians	154.00	169.40

NOTE: Please contact us if your testing requirements are not listed in this document, we are more than happy to discuss these with you.

CONTACT LIST

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