



## T-CHEM 2

### TORANT® CHEMICAL RESISTANT, ANTI-STATIC/ FLAME RESISTANT WATERPROOF/ BREATHABLE FABRIC



#### T-Chem 2 General Information

**Liquid chemical splash protection.** These garments offer liquid splash, anti-static & flame resistant protection against a wide range of chemicals including many common use acids and bases, aqueous solutions, polymers, and organic solvents, being waterproof it also offers excellent foul weather protection exclusive of chemical exposure. The garments should be used only for those situations where vapour protection is not needed or where vapour exposure is determined to be acceptable by an industrial safety professional.

**Breathable.** The suit allows perspiration to evaporate through the chemical barrier to the outside. This reduces the build up of heat and sweat inside the suit thereby reducing potential heat stress and allowing the wearer to continue their task in comfort.

**Whole garment integrity.** Glanda chemical splash suits are seam sealed and sewn with high quality components. These components ensure there are no weak points in the garment construction. The garments have been carefully designed for maximum chemical run off.

#### WARNING

The Chemical Splash Protective garment does not provide protection for all chemicals or conditions. These garments should only be worn in conditions that have specifically identified as appropriate by people trained in the relevant hazard. It is the user's responsibility to determine the suitability and fitness for use. Consult a trained professional in industrial safety when determining fitness for use. These suits are not suitable for protection against liquid escaping from pressurised systems.

#### Chemical Penetration Data

Chemical	Test Result
----------	-------------

Sulphuric Acid (32%)	PASS	Compliance	
Sulphuric Acid (98%)	PASS		
Hydrochloric Acid (30%)	PASS		
Sodium Hydroxide (50%)	PASS	AS/NZS 4602.1:2011	High Visibility
Caustic Soda	PASS	EN1149-1:2006	Surface Resistivity
White Spirt	PASS	AS2755.1:1985	Ease of Ignition
Jet Fuel A (Kerosene)	PASS	AS2755.2:1985	Flame Spread
Nitric Acid (70%)	PASS	AS/NZS ISO 6530:2006	Liquid Chemicals
Ammonia Solution (30%)	PASS		
Hydrogen Peroxide (30%)	PASS	Sizes Available XSM-4XL	

Please contact us to discuss any chemical splash requirements.



# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N. 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O. Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

CLIENT : GLANDA INTERNATIONAL  
149 NORTHERN ROAD  
CNR BAMFIELD ROAD  
WEST HEIDELBERG VIC 3081

TEST NUMBER : 7-596777-BV  
ISSUE DATE : 07/04/2014  
PRINT DATE : 07/04/2014

SAMPLE DESCRIPTION Clients Ref: "T-Chem 2"  
Yellow woven fabric with black conductive thread  
laminated to grey knitted backing

AS 2755.1-1985 Determination of Ease of Ignition of vertically  
oriented specimens

TEST CONDITIONS:- Barometric pressure: 1018 hPa Gas used: Propane  
Relative Humidity: 45 % Specimen size: 200 x 80 mm  
Burner orientation: Surface Temperature: 21 degC

Test Results As Received

Warp Time (s)	Number of Ignitions	Number of Non Ignitions	Weft Time (s)	Number of Ignitions	Number of Non Ignitions
14	0	3	14	3	4
15	3	2	15	3	1
16	2	3	16	2	0

Warp: Mean Ignition Time: 15.0 s  
Weft: Mean Ignition Time: 15.0 s  
Minimum Ignition Time: 15.0 s

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( END OF REPORT )

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-Chemical Testing of Textiles & Related Products : Accreditation No. 983  
-Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
-Heat & Temperature Measurement : Accreditation No. 1356

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## TEST REPORT

CLIENT : GLANDA INTERNATIONAL  
149 NORTHERN ROAD  
CNR BAMFIELD ROAD  
WEST HEIDELBERG VIC 3081

TEST NUMBER : 7-596768-BV  
ISSUE DATE : 04/04/2014  
PRINT DATE : 04/04/2014

SAMPLE DESCRIPTION Clients Ref: "T-Chem 2"  
Yellow woven fabric with black conductive thread  
laminated to grey knitted backing

AS 2755.2-1985 Measurement of flame spread properties of  
Vertically oriented specimens

Test Conditions:	As Received	Face tested:	Face
Barometric Pressure	1018 hPa	Gas used	Propane
Relative Humidity	45 %	Ignition Time	15 s
Burner Orientation	Vertical	Temperature	22 degC
Test Results:	Length	Width	
Mean Severence Time			s
To 1st marker thread	FTBT	FTBT	
To 2nd marker thread	FTBT	FTBT	
To 3rd marker thread	FTBT	FTBT	
Mean Flame Spread Time			
1st marker to 2nd marker thread	FTBT	FTBT	
2nd marker to 3rd marker thread	FTBT	FTBT	
1st marker to 3rd marker thread	FTBT	FTBT	

FTBT = Failed to Burn to

Observations: Length:  
4 specimens failed to burn to 1st marker thread  
2 specimens failed to burn to 2nd marker thread  
6 specimens were tested

Width:  
3 specimens failed to burn to 1st marker thread  
3 specimens were tested

Flame application caused a hole to be burnt or melted on face of specimen.  
No flame reaches the vertical edge of specimen.  
No flaming debris fell below the bottom edge of the frame and continued  
to burn.

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APPROVED SIGNATORY

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## TEST REPORT

CLIENT : GLANDA INTERNATIONAL  
126-128 BAMFIELD ROAD  
WEST HEIDELBERG VIC 3081

TEST NUMBER : 7-598506-MV  
ISSUE DATE : 25/07/2014  
PRINT DATE : 25/07/2014

SAMPLE DESCRIPTION Clients Ref: "T-Chem 2"  
Yellow woven fabric with black conductive thread  
laminated to grey knitted backing

AS/NZS ISO 6530 Protective Clothing - Protection Against Liquid Chemicals -  
Determination of Resistance of Materials to Penetration  
by Liquids

Test liquid	%	Spec	Index of Penetration	
			Length	Width
Sodium Hydroxide	50	1	0.0	0.0
		2	0.0	0.0
		3	0.0	0.0
Sulphuric Acid	98	1	0.0	0.0
		2	0.0	0.0
		3	0.0	0.0

Test Liquid	%	Spec	Index of Repellency	
			Length	Width
Sodium Hydroxide	50	1	97.3	96.9
		2	97.0	97.1
		3	97.0	96.7
Sulphuric Acid	98	1	96.4	97.9
		2	97.5	97.8
		3	96.9	97.6

			Index of Absorption	
Sodium Hydroxide	50	1	0.0	0.0
		2	0.0	0.0
		3	0.0	0.0
Sulphuric Acid	98	1	1.7	2.8
		2	2.3	2.4
		3	2.3	2.3

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TEST NUMBER : 7-598506-MV  
ISSUE DATE : 25/07/2014  
PRINT DATE : 25/07/2014

Specimens preconditioned at 50degC and conditioned at  
20+/-2degC and 63+/-3% RH prior to testing.

Tested at ambient laboratory conditions: 20+/-3degC

Flow rate of test liquid: 10mL in 10 +/- 1 sec

Mass per unit area: 350 g/m2

Single layer tested.

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## TEST REPORT

**Client :** Glanda International  
126-128 Bamfield Road  
West Heidelberg VIC 3081

**Test Number :** 14-001850  
**Issue Date :** 24/12/2014  
**Print Date :** 24/12/2014

**Sample Description** Clients Ref : "Torant T-Chem 2"  
Woven fabric with conductive grid laminated to grey knitted backing  
Colour : Fluorescent Yellow  
End Use : Protective Clothing

### ASNZS ISO 6530-2006

### Protective Clothing - Protection Against Liquid Chemicals - Determination of Resistance of Materials to Penetration of Liquids

**Test Liquid** Sodium Hypochlorite Solution (8.0-12.5% Available Chlorine)

Index of Penetration	Length	
1	0.0	0.0 %
2	0.0	0.0 %
3	0.0	0.0 %

Index of Repellency	Length	
1	98.9	98.7 %
2	99.1	99.2 %
3	98.9	98.7 %

Index of Absorption	Length	
1	0.8	0.7 %
2	0.5	0.5 %
3	0.7	0.6 %

**Mass per unit area** 366 g/m<sup>2</sup>

Specimens preconditioned at 50°C and conditioned at 20±2°C and 65±3% relative humidity prior to testing.

Tested at ambient laboratory conditions of 20±3°C.

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**Print Date :** 24/12/2014

### ASNZS ISO 6530-2006

Due to the difficulty to hold and maintained the needle in place. An aperture of 2.0mm approximately was used.

### Protective Clothing - Protection Against Liquid Chemicals - Determination of Resistance of Materials to Penetration of Liquids

Test Liquid

98% Sulphuric Acid

Index of Penetration

Length

1	0.0	0.0 %
2	0.0	0.0 %
3	0.0	0.0 %

Index of Repellency

Length

1	98.6	99.9 %
2	99.4	99.3 %
3	98.9	99.3 %

Index of Absorption

Length

1	1.7	1.8 %
2	1.8	2.0 %
3	2.3	2.0 %

Mass per unit area

366 g/m<sup>2</sup>

Specimens preconditioned at 50°C and conditioned at 20±2°C and 65±3% relative humidity prior to testing.

Tested at ambient laboratory conditions of 20±3°C.

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ASNZS ISO 6530-2006

### Protective Clothing - Protection Against Liquid Chemicals - Determination of Resistance of Materials to Penetration of Liquids

Test Liquid

30% Ammonia Solution.

Index of Penetration

Length

1	0.0	0.0 %
2	0.0	0.0 %
3	0.0	0.0 %

Index of Repellency

Length

1	89.2	92.6 %
2	89.5	91.6 %
3	91.9	91.1 %

Index of Absorption

Length

1	1.2	1.0 %
2	0.9	0.7 %
3	0.9	0.9 %

Mass per unit area

366 g/m<sup>2</sup>

Specimens preconditioned at 50°C and conditioned at 20±2°C and 65±3% relative humidity prior to testing.

Tested at ambient laboratory conditions of 20±3°C.

Due to the difficulty to hold and maintained the needle in place. An aperture of 2.0mm approximately was used.

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### AS/NZS ISO 6530-2006

### Protective Clothing - Protection Against Liquid Chemicals - Determination of Resistance of Materials to Penetration of Liquids

**Test Liquid** 50% Sodium Hydroxide Solution (Caustic Soda)

Index of Penetration	Length	
1	0.0	0.0 %
2	0.0	0.0 %
3	0.0	0.0 %

Index of Repellency	Length	
1	97.1	97.1 %
2	97.2	98.2 %
3	97.6	95.9 %

Index of Absorption	Length	
1	0.6	0.5 %
2	0.5	0.6 %
3	0.6	0.5 %

**Mass per unit area** 366 g/m<sup>2</sup>

Specimens preconditioned at 50°C and conditioned at 20±2°C and 65±3% relative humidity prior to testing.

Tested at ambient laboratory conditions of 20±3°C.

Due to the difficulty to hold and maintained the needle in place. An aperture of 2.0mm approximately was used.

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ASNZS ISO 6530-2006

### Protective Clothing - Protection Against Liquid Chemicals - Determination of Resistance of Materials to Penetration of Liquids

Test Liquid	32% Hydrochloric Acid	
Index of Penetration	Length	
1	0.0	0.0 %
2	0.0	0.0 %
3	0.0	0.0 %
Index of Repellency	Length	
1	97.2	94.6 %
2	96.2	94.2 %
3	95.4	95.8 %
Index of Absorption	Length	
1	1.9	3.5 %
2	2.1	2.4 %
3	3.3	2.3 %
Mass per unit area	366 g/m <sup>2</sup>	

Specimens preconditioned at 50°C and conditioned at 20±2°C and 65±3% relative humidity prior to testing.

Tested at ambient laboratory conditions of 20±3°C.

Due to the difficulty to hold and maintained the needle in place. An aperture of 2.0mm approximately was used.

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### ASNZS ISO 6530-2006

### Protective Clothing - Protection Against Liquid Chemicals - Determination of Resistance of Materials to Penetration of Liquids

Test Liquid

30% Hydrogen Peroxide Solution

Index of Penetration

Length

1	0.0	0.0	%
2	0.0	0.0	%
3	0.0	0.0	%

Index of Repellency

Length

1	99.1	98.6	%
2	99.4	98.2	%
3	98.1	98.3	%

Index of Absorption

Length

1	1.3	0.6	%
2	0.8	0.7	%
3	0.8	0.8	%

Mass per unit area

366 g/m<sup>2</sup>

Specimens preconditioned at 50°C and conditioned at 20±2°C and 65±3% relative humidity prior to testing.

Tested at ambient laboratory conditions of 20±3°C.

Due to the difficulty to hold and maintained the needle in place. An aperture of 2.0mm approximately was used.

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ASNZS ISO 6530-2006

### Protective Clothing - Protection Against Liquid Chemicals - Determination of Resistance of Materials to Penetration of Liquids

Test Liquid

70% Nitric Acid

Index of Penetration

Length

1	0.0	0.0 %
2	0.0	0.0 %
3	0.0	0.0 %

Index of Repellency

Length

1	98.9	99.1 %
2	96.5	99.1 %
3	99.5	99.1 %

Index of Absorption

Length

1	1.0	1.2 %
2	1.0	1.4 %
3	1.0	1.1 %

Mass per unit area

366 g/m<sup>2</sup>

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Tested at ambient laboratory conditions of 20±3°C.

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