



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	AS/NZS 4602.1:2011	High Visibility
Sodium Hydroxide (50%)	PASS	EN1149-1:2006	Surface Resistivity
Caustic Soda	PASS	AS2755.1:1985	Ease of Ignition
White Spirt	PASS	AS2755.2:1985	Flame Spread
Jet Fuel A (Kerosene)	PASS	AS/NZS ISO 6530:2006	Liquid Chemicals
Nitric Acid (70%)	PASS		
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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This Laboratory is accredited by the National Association of Testing Authorities, Australia, for:
-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 Severance 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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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

Test Liquid	%	Spec	Index of Absorption	
			Length	Width
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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126-128 BAMFIELD ROAD
WEST HEIDELBERG VIC 3081

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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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc. (Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

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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
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/m²

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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MICHAEL A. JACKSON B.Sc (Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

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A.B.N 43 006 014 106

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

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

ASNZS ISO 6530-2006

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 ²

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 ²	

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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126-128 Bamfield Road
West Heidelberg VIC 3081

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Issue Date : 24/12/2014
Print Date : 24/12/2014

ASNZS 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/m²

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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Issue Date : 24/12/2014
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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 ²	

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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Print Date : 24/12/2014

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 ²	

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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Print Date : 24/12/2014

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 ²	

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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MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR



Test Report

Date: Mar 15, 2013

Page 2 of 2

Test Result

Surface Resistivity of Fabric

(EN 1149-1:2006)

Test Condition : Applied Voltage and time:100V for 15 seconds
Temperature 23 ± 1 °C, Relative Humidity $25 \pm 5\%$

Back

Surface Resistance(ohm)	2.4×10^8
Surface Resistivity (ohm)	4.8×10^9

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SGS-CTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Centre

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763 www.cn.sgs.com
t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

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