



EC Type-Examination Certificate

Directive for Personal Protective Equipment

Certificate No.: DK-0200-PPE-1785 version 3

Issued by FORCE Certification A/S - EC-notified body number 0200

In accordance with Danish Working Environment Authority Regulation No. 683 of June 10th 2013, which in Denmark implements the Council Directives No. 89/686, No. 93/68, No. 93/95 and No. 96/58 (PPE) and regulations EC/1882/2003 and EU/1025/2012, EC type-examination certificate is issued to:

Manufacturer:

Ansell Protective Solutions AB

Johan Kocksgatan 10 SE-213 81 Trelleborg

SWEDEN

Identification of Personal Protective Equipment:

Type:

Chemical protective clothing

Designation:

Trelichem Splash 600 series

Classification:

Spray tight suit type 4, versions 900 and TL are type 4-B

Essential parts/versions:

Five material options: 600, 900, TL, TS, or LX.

High collar or one of various hood options.

Open legs with elastic or press studs. Various leg options.

Open sleeves with strap and hook and loop fastener. Various cuff options.

Options for gloves and glove attachments.

Regular nylon zipper on the front protected by two splash protective flaps

with press studs. Optional hook and loop fastener for flaps.

Optional zipper: water tight PVC zipper.

Manufactured by:

Ansell Protective Solutions Lithuania UAB, Lithuania with sub-suppliers as

specified in the appendix to the certificate.

The examined samples are found to fulfil the relevant requirements stated in the following harmonised standard(s):

EN 14605:2005 +

A1:2009

Protective clothing against liquid chemicals – Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections

EN14126:2003 Protective Clothing against infective agents

Category:

The examined type of personal protective equipment is class III equipment and a

quality control agreement with a notified body must be available.

Documentation for observance of relevant requirements stated in Appendix II of Regulation No. 684 of June 10th 2013 and the basis for the type examination are described in the appendix to this certificate. The manufacturer must inform FORCE Certification A/S of any contemplated changes.

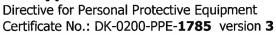
This EC Type examination certificate replaces following certificates: DK-0200-PPE-1785 ver. 2 dated 2011-04-29, DK0200-PPE-1958 ver. 1 dated 2011-04-14, and DK-0200-PPE-1961 ver. 1 dated 2011-06-21.

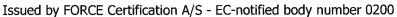
FORCE Certification A/S task No.: 113-21383.08

Date of issue: 2014-01-16 Date of expiry: 2019-01-16

Niels Ovesen Certification manager Erik Bjarnov Examiner

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Material properties for standard Splash 600 material, and optional material Splash 900. Classification

according to EN 14325:2004

Property	Splash 600	Splash 900	Class requirements
Abrasion resistance, cycles (EN 530)	6	6	6: > 2000 cycles
Flex cracking resistance, cycles (ISO 7854:B)	6	4	6: > 100 000 cycles 4: > 15 000 cycles
Flex cracking resistance at – 30 °C, cycles (ISO 7854:B)	2	4	2: > 200 cycles 4: > 1000 cycles
Tear resistance (EN ISO 9073-4)	4	6	4: > 60N 6: > 150 N
Tensile strength (EN ISO 13934-1)	6	4	6: > 1000 N 4: > 250 N
Puncture resistance (EN 863)	3	2	3: > 50 N 2: > 10 N
Resistance to flame* (EN 13274-4:2001 method 3 modified)	3	2	3: 5s in flame 2: 1s in flame
Seam strength (EN ISO 13935-2)	6	5	6: > 500 N 5: > 300 N

^{*} EN14605:2005 + A1:2009 requires a different test to demonstrate resistance to flame if protection against flame is essential.

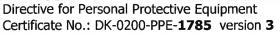
Classification according to EN ISO 14116:2008.

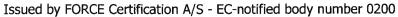
Property	Splash 900 Index	Requirements
Limited flame spread index (EN ISO 15025)	1	No flame or hole reach upper edge, no flaming debris, no afterglow shall spread

Resistance to permeation by chemicals

Chemical	Splash 600 suit	Splash 600 suit seam	900 Material	900 Material seam	Nitril/ chloroprene glove	Viton/Butyl rubber glove
11 Acetone				Ų		6
12 Acetonitrile						6
8 Ammonia (gas)						6
14 Carbon disulfide						6
9 Chlorine (gas)						6
1 Dichloromethane						3
5 Diethyl amine					2	3
9 Ethyl acetate					2	4
3 n-Heptane						6
- n-Hexane						6
- Hydrochloric acid 37%			5	6		
10 Hydrogen chloride (gas)						6
2 Methanol						6
6 Sodium hydroxide 40%	6	6	6	6		6
7 Sulphuric acid 98%	2	3	0	1		6
15 Tetrahydrofuran						1
4 Toluene					2	6

Permeation properties for the boots and optional gloves are available with the manufacturer.







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Optional Materials

Properties for Trellchem Light (TL) and Splash 600LX. Classification according to EN 14325:2004

Property	Trelichem Light	LX	Class requirements
Abrasion resistance (EN 530)	6	1	6: > 2000 cycles 1: > 10 cycles
Flex cracking resistance (ISO 7854:B)	6	6	6: > 100 000 cycles
Flex cracking resistance at -30 °C (ISO 7854:B)	6	0	6: > 4000 cycles 0: < 100 cycles
Tear resistance (EN ISO 9073-4)	4	2	4: > 60 N 2: > 20 N
Tensile strength (EN ISO 13934-1)	6	3	6: >1000 N 3: > 100 N
Puncture resistance (EN 863)	4	2	4: >100 N 2: > 10 N
Resistance to flame (EN 13274-4:2001 method 3 modified)	3	=	3: 5s in flame -: not tested
Seam strength (EN ISO 13935-2)	6	4	6: > 500 N 4: > 125 N

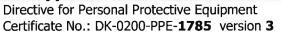
Additional tests not required in EN 14605:2004 and EN 14325:2004.

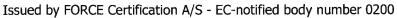
Property	TL	LX	Requirements
EN ISO 14116 Limited flame spread index	2	1	No flame or hole reach upper edge, no flaming debris, no afterglow shall spread No hole formation
Antistatic properties EN 1149-5, charge decay	t ₅₀ = 0,09 s	£ ₩ 3	t ₅₀ < 4 s

Resistance to permeation by chemicals.

	Chemical	TL	TL	LX	LX
		suit	suit seam	Material	Material seam
11	Acetone				
12	Acetonitrile				
8	Ammonia (gas)				
14	Carbon Disulfide				
9	Chlorine (gas)				
1	Dichloromethane				
5	Diethyl amine				
13	Ethyl Acetate				
-	Hydrochloric Acid 37%			3	1
10	Hydrogen Chloride (gas)				
2	Methanol				
3	n-heptane				
6	Sodium hydroxide, 40%	6	6	6	6
7	Sulphuric Acid, 96%	4	3	1	1
15	Tetrahydrofuran				
4	Toluene				

Permeation properties for the boots and optional gloves are available with the manufacturer.







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Optional Material

Properties for Trellchem Super. Classification according to EN 14325:2004

Property	Trellchem Super	Class requirements
Abrasion resistance, cycles (EN 530)	6	> 2000 cycles
Flex cracking resistance, cycles (ISO 7854:B)	6	> 100 000 cycles
Flex cracking resistance at – 30 °C, cycles (ISO 7854:B)	6	> 4000 cycles
Tear resistance (EN ISO 9073-4)	3	3: > 40 N
Tensile strength (EN ISO 13934-1)	6	6: > 1000 N
Puncture resistance (EN 863)	3	3: > 100 N
Resistance to flame* (EN 13274-4:2001 method 3 modified)	3	5s in flame leak tight afterwards
Seam strength (EN ISO 13935-2)	6	> 500 N

^{*} Not used in EN 14605+A1:2009.

Additional tests not required in EN 14605:2004 and EN 14325:2004.

Property	Value or class	Requirements
EN ISO 14116 Limited flame spread index	2	No hole formation
Antistatic properties EN 1149-5, shielding (S)	0.98	S > 0.2
Antistatic properties EN 1149-5, charge decay	t ₅₀ < 0,01 s	t ₅₀ < 4 s

Resistance to permeation by chemicals

	Chemical	Super Suit	Super suit seam	Nitril/ chloroprene	Viton/Butyl rubber
		Juic	Cuit Gouin	glove	glove
11	Acetone	6	5		6
12	Acetonitrile	6	6		6
8	Ammonia (gas)	6	6		6
14	Carbon disulfide	6	6		6
9	Chlorine (gas)	6	6		6
1	Dichloromethane	3	3		3
5	Diethyl amine	2	2	2	3
9	Ethyl acetate	3	3	3	4
3	n-Heptane	6	6		6
-	n-Hexane				6
10	Hydrogen chloride (gas)	6	6		6
2	Methanol	6	6		6
6	Sodium hydroxide 40%	6	6		6
7	Sulphuric acid 98%	6	6		6
15	Tetrahydrofuran	1	1		1
4	Toluene	6	6	2	6

Permeation properties for the boots and optional gloves are available with the manufacturer.

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Materials Splash 900 and Trellchem Light (TL)

Classification for protection against infective agents according to EN 14126:2003

Property	Class
Resistance to penetration by contaminated liquids under pressure (ISO16603 and ISO 16604)	6
Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids (EN ISO 22610:2006)	6
Resistance to penetration by contaminated liquid aerosols (ISO/DIS 22611)	3
Resistance to penetration by contaminated solid particles (ISO 22612)	3

Date: 2014-01-16

Erik Bjarnov Examiner

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Manufacturer:

Ansell Protective Solutions AB

Johan Kocksgatan 10 SE-213 81 Trelleborg

SWEDEN

Identification of Personal Protective Equipment:

Type:

Chemical protective clothing

Designation:

Trellchem Splash 600

Classification:

Spray tight suit type 4

Essential parts/versions

Trellchem Splash 600 material (polyamide fabric covered both sides with PVC) red,

optional green.

Trellchem Splash 900 material (polyamide fabric covered one side with PVC) yellow

Trellchem Light material (polyamide fabric covered both sides with PVC) orange, optional green.

Trellchem LX (polyester fabric covered one side with PVC) fluorescent yellow.

Trellchem Super material (polyamide fabric coated with Viton/butyl and antistatic layer outside and orange butyl rubber inside) yellow.

Open legs with elastic or press studs.

Option 1: Open double legs, inner legs with elastic.

Option 2: Attached PVC boots or Etché Fireman nitrile rubber boots.

Option 3: Sock version.

Open sleeves with strap and hook and loop fastener.

Option: Trellchem classic glove attachment with elastic band.

Option: double cuff sleeves with classic glove attachment on the inner

Option: double cuff sleeves with elastic on inner and strap with hook and loop fastener on outer.

Option: Trellchem Bayonet ring system with attached nitrile/chloroprene rubber gloves.

Optional gloves: Trellchem Viton/Butyl rubber, Trellchem Butyl rubber, Trellchem chloroprene rubber, Ansell Netop, or Multitop PVC gloves. Other appropriate gloves may be used.

Regular nylon zipper on the front protected by double splash protective flaps.

Standard flaps: Double splash protective flaps with press studs.

Optional flaps: Double splash protective flaps with hook and loop fastener.

Optional zipper: Watertight PVC zipper.

Examples of hood options:

- No hood, high collar intended primarily for use with Trellchem Freeflow hood or Trellchem Mask Hood
- Standard hood with drawstring or elastic around face opening and strap with hook and loop fastener
- Hood that will cover specific helmets, e.g. Gallet helmet
- Hood with longer brim

Options for knee and elbows reinforcements.

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Design: Not all colours, designs and materials are shown.



Splash 600 with attached boots, standard sleeve and hood, Splash 600 material



Optional hood, longer brim





Splash 600 standard hood, Option: elastic instead of draw string

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Example of special hood For Gallet helmet







Liquid tight PVC zipper (optional), Trellchem Light material



Standard sleeve with strap and hook and loop fastener



Trellchem Bayonet ring system (optional)

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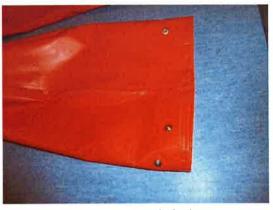
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Optional double cuff with classical ring system for glove attachment



Optional press studs for legs



Standard open leg with elastic



Optional double leg



Optional sock version

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History:

Issue/change:	Document:	Date:
Original certificate	DK-0200-PPE-1785 ver. 1	2009-04-28
Update of suit versions	DK-0200-PPE-1785 ver. 2	2011-04-29
Update of versions, plus inclusion of LX, DK-0200-PPE-1958 ver. 1 and TS, DK-0200-PPE-1961 ver. 1	DK-0200-PPE-1783 ver. 3	2014-01-16

Manufacturer/Sub-supplier:	
Assembly:	
Suit:	Ansell Protective Solutions Lithuania UAB, Lithuania
Gloves:	
Nitopren P or Ducachem	KCL, Germany
Trelichem Viton/Butyl glove	Rex Gummitechniken GmbH, Germany
Boots:	
Dunlop Acifort Heavy Duty	Dunlop Protective Footwear

Materials/Designations:

Trellchem Splash 600	Lothian CF1127, APS part no 064 708 305 (red), 064 708 326 (green)	
Trellchem Splash 900	Scandinavian Coating CD 942, APS part no 064 708 315 (yellow)	
Trellchem Light	APS part no 064 708 300 (orange), 064 708 301 (green)	
Trellchem Splash LX	Lava Combi Heavy, APS part no 064 525 000 (fluorescent yellow)	
Trellchem Super	Trelleborg Engineered Fabrics, APS Part No. 000 165 485 (yellow)	

Documentation for observance of relevant requirements stated in the harmonized standard EN 14605:2005 + A1:2009:

Test House	File No.	Testing/Inspection of:
FORCE Technology	108-32677.05a1, date 2009.02.23	Complete suit testing to EN14605:2005
	108-32677.01a, date 2009.01.16	Splash 600 material physical/ mechanical data
	108-32677.02a, -c, -f, -h date 2009.01.06	Permeation testing of Splash 600 material and seam
	108-32677.05d, date 2009.02.23	Splash 900/2000 Integrity of attached boot to suit assemblage

Appendix to EC Type-Examination Certificate Directive for Personal Protective Equipment

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	108-32677.01b, date 2009.01.16	Splash 900 Suit material physical/ mechanical data.
	108-32677.01d, date 2009.01.06	Splash 900 Suit seam strength
	108-32677.02b –d, -g, -i, -k, -l date 2009.01.06	Splash 900 Permeation testing of suit material and seam
	112-23562.15a, date 2013-01-17	New Trellchem Light mechanical material properties
	112-23562.15 b, c,d,e date 2013- 01-18	New Trellchem Light material and seam, permeation properties, 2 chemicals
	111-22826.01g date 2011-04-13	600 LX material properties: abrasion, flex cracking, tear resistance, puncture resistance and seam strength
	111-22826.01a, b, c, d, e, f date 2011-04-13	600 LX material and seam, permeation three chemicals
	108-34157.01 2008.12.17	TS material tear resistance
	109-21561.01b 2009.02.23	TS material Flex cracking at -30 °C
	109-21561.01e 2009.03.02	TS material seam strength
	109-21561.01f 2009.05.28	TS material abrasion, flex cracking and flammability test
	109-21561.01a 2009.02.19	TS material, tensile, puncture resistance
	108-34157, 2008.12.17 109-21561.02a,b,c,d,e,f,g,h,i,k 2009.03.23 109-21561.02m,o,p,q,r,s,u 2009.04.01 109-21561.02x,y,aa,bb,cc 2009.05.18 109-21561.02.2c 2009.07.24 109-32332a-g 2010.04.28	TS material and seam permeation testing 15 chemicals as per EN 943-2
FORCE-Dantest CERT	EC Type examination certificate	Refers to all tests with Trellchem Viton/butyl
BGIA (now IFA)	DK-0200-PPE-1622 EG baumuster Prüfbescheinigung 0501028, 04.10.2005	rubber glove Nitopren glove, permeation testing and EN 420 requirements
IFA	EC Type examination certificate IFA	Ducachem glove, permeation data for 3
Centexbel	1001260 30.09.2010 Analysis Report 67407 date 2009 -03-11	chemicals 600LX material tensile test and EN ISO15025 limited flame spread test for EN ISO14116
Partial conclusion:	The requirements stated in EN 14605:2005 + A1:2009 are fulfilled for the relevant test clauses and classifications	

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Documentation for observance of relevant requirements stated in other the harmonized standards

FORCE Technology	109-21561.01c 2009.02.23	TS material limited flame spread test, EN/ISO 15025:2002
	108-32677.04b (2009.02.23)	Splash 900 EN ISO 14116 Limited flame spread index
CENTEXBEL	Certification Report HR/1448 2009.02.16	TS material EN1149-5:2008 antistatic properties
	Analysis report Nr. 13.00168.01 date 22-01-2013	Trellchem Light, Electrostatic charge decay, EN 1149-3:2008

Documentation for observance of relevant requirements stated in the harmonized standard EN 14126:2003 / AC:2004:

Test House	File No.	Testing/Inspection of:
CENTEXBEL	Analysis Report 12.01413.02 date 08-05-2012	Test of 900 (2000) material to ISO 16603, 16604, 22611, 22612 and 22610
	Analysis report Nr. 13.00168.02 date 28-01-2013	Test of TL material to ISO 16603, 16604, 22611, 22612 and 22610
Partial conclusion:	The requirements stated in the standards are fulfilled for the relevant test clauses and classifications	

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Documentation for observance of relevant requirements stated in Appendix II of Regulation No. 1273 of December 18th 1996:

Description of quality management system:

Certificate 65703CC1-2009-AQ-FIN-FINAS for ISO 9001

approval for Trelleborg Protective Products AB.

Certificate 460201, ver. 2, from SP (notified body 0402) for

PPE Directive § 11B production control of chemical

protective clothing, dated 25 June 2010

Declarations of innocuousness:

15 April 2009: Splash 600 and Splash 900 suits

30. March 2011 Trellchem Light 01. August 2012 Trellchem Super

09. January 2014 Splash 600 suits, all versions

Instruction for use:

Trelichem Splash user's manual, 1311

Drawing

363039-165 (overall Splash 600)

The user manual and marking were assessed in English to EN 14605. The manufacturer is obligated to provide user manual and marking in the language of the country in which the product is to be used.

Conclusion

Based on the above mentioned attestation it can be concluded that the personal protective equipment, designated Trellchem Splash 600 TS in various variations meets the conditions of EC type-examination in accordance with the Danish Working Environment Authority Regulation No. 683 of June 10th 2013.

FORCE Certification A/S task No.: 113-21383.08

Date: 2014-01-16

Erik Bjarnov Examiner