

## 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 10<sup>th</sup> 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: **Trellchem 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 10<sup>th</sup> 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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# Classification annex to EC Type-Examination Certificate

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

Property	Trelchem 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	1: No flame or hole reach upper edge, no flaming debris, no afterglow shall spread 2: No hole formation
Antistatic properties EN 1149-5, charge decay	$t_{50} = 0,09$ s	-	$t_{50} < 4$ s

### Resistance to permeation by chemicals.

Chemical	TL suit	TL suit seam	LX Material	LX 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 Trelchem Super. Classification according to EN 14325:2004

Property	Trelchem 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 glove	Viton/Butyl rubber 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 Trelchem 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

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Erik Bjarnov  
Examiner

# Appendix to EC Type-Examination Certificate

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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: Trelchem Splash 600

Classification: Spray tight suit type 4

Essential parts/versions

Trelchem Splash 600 material (polyamide fabric covered both sides with PVC) red, optional green.

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

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

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

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

Optional gloves: Trelchem Viton/Butyl rubber, Trelchem Butyl rubber, Trelchem 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 Trelchem Freeflow hood or Trelchem 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



Standard zipper



Liquid tight PVC zipper (optional),  
Trelchem Light material



Standard sleeve with strap and hook and loop fastener



Trelchem Bayonet ring system (optional)

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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 Trelchem Viton/Butyl glove	KCL, Germany Rex Gummitechniken GmbH, Germany
Boots: Dunlop Acifort Heavy Duty	Dunlop Protective Footwear

## Materials/Designations:

Trelchem Splash 600	Lothian CF1127, APS part no 064 708 305 (red), 064 708 326 (green)
Trelchem Splash 900	Scandinavian Coating CD 942, APS part no 064 708 315 (yellow)
Trelchem Light	APS part no 064 708 300 (orange), 064 708 301 (green)
Trelchem Splash LX	Lava Combi Heavy, APS part no 064 525 000 (fluorescent yellow)
Trelchem 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

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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 Trelchem Light mechanical material properties	
112-23562.15 b, c,d,e date 2013-01-18	New Trelchem 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	TS material and seam permeation testing 15 chemicals as per EN 943-2	
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		
FORCE-Dantest CERT	EC Type examination certificate DK-0200-PPE-1622	Refers to all tests with Trelchem Viton/butyl rubber glove
BGIA (now IFA)	EG baumuster Prüfbescheinigung 0501028, 04.10.2005	Nitopren glove, permeation testing and EN 420 requirements
IFA	EC Type examination certificate IFA 1001260 30.09.2010	Ducachem glove, permeation data for 3 chemicals
Centexbel	Analysis Report 67407 date 2009 -03-11	600LX material tensile test and EN ISO15025 limited flame spread test for EN ISO14116

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**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	Trelchem 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 18<sup>th</sup> 1996:

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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 Trelchem Light 01. August 2012 Trelchem Super  09. January 2014 Splash 600 suits, all versions
Instruction for use:	Trelchem Splash user's manual, 1311
Drawing	363039-165 (overall Splash 600)

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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 Trelchem 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 10<sup>th</sup> 2013.

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

Date: 2014-01-16

A handwritten signature in blue ink, appearing to read "Erik Bjarhov".

Erik Bjarhov  
Examiner