

TEST REPORT

Report Ref: LEHTX00101329	
Date Received : 25/08/2017	Date Issued: 01/09/2017

Company Name & Address	Dirty Rigger Gloves & Accessories Sawtry Way Unit 1, Houghton Hill Industries Cambridge PE28 2DH
Contact Name:	Steven Marshall

Order No.:	
Description:	Protector V2
Colour (S) :	Black
Supplier:	
End Use:	Gloves
Quoted Composition:	
Ref / Style No.	
Quality:	
Batch No.:	
Specification:	EN 388: 2016 / EN 420: 2003 + A1: 2009

Tests Conducted	Method	Sample	Pass/Fail
^Gloves – Abrasion Resistance	EN 388 - 6.1		Level 3
^Gloves – Blade Cut Resistance	EN 388 - 6.2		Level 1
^Gloves – Tear Strength	EN 388 - 6.4		Level 3
^Gloves – Puncture Resistance	EN 388 - 6.5		Level 1
^Gloves – Design & Construction	EN 420		Pass
^Gloves – Sizing	EN 420		See Results
^Gloves – Dexterity	EN 420		Level 3
^Gloves – Impact Resistance	EN 388 - 6.6		Level 1
^Determination of pH of Textile Material	EN ISO 3071		Pass
^Detection of Amines Derived from Azocolourants and Azodyes	EN 14362-1		Pass
^Determination of pH in Leather	EN ISO 4045		Pass
^Determination of Chromium VI	EN ISO 17075		Pass
^Azo Dyes in Leather	EN ISO 17234-1		Pass

RESULTS: See attachment

COMMENT: Where the results of a test fall close to the requirement, compliance with the specification may be affected by the uncertainty of measurement of the test.
In those circumstances, the client is advised to contact the laboratory for further information

Unmarked tests included in this report are on our UKAS Scope 1516.

Tests marked (^) in this Report are included in the UKAS Scope of the sub-contractor who performed the test.

Tests marked (*) in this Report are not included in our UKAS Scope 1516.

Tests marked (**) in this Report are not included in the UKAS Scope for the sub-contractor who performed the test.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

Note: A sub-contractor whose certification comes under the ILAC agreement would also be marked in the same manner as a UKAS sub-contractor.



Steven Owen
(Laboratory Manager)

9341 ^GLOVES – ABRASION RESISTANCE EN 388:2016 6.1						
SAMPLE	Results				Performance Levels	
Protector V2 Gloves	Holes developed before 8000 cycles				Level 1: greater than 100 less than 500 cycles Level 2: greater than 500 less than 2000 cycles Level 3: greater than 2000 less than 8000 cycles Level 4: greater than 8000 cycles	
9342 ^GLOVES - BLADE CUT RESISTANCE EN 388:2016 6.2						
SAMPLE	RESULTS					Performance Level:
Protector V2 Gloves	Sample 1					Level 1: 1.2 Level 2: 2.5 Level 3: 5.0 Level 4: 10.0 Level 5: 20.0 :
	I1	I2	I3	I4	I5	
	1.5	1.5	1.3	1.5	1.4	
	Average Index: 1.4					
	Sample 2					
	I6	I7	I8	I9	I10	
	1.4	1.5	1.5	1.5	1.5	
Average Index: 1.5						
9343 ^GLOVES – TEAR STRENGTH EN 388:2016 6.4						
SAMPLE	Results				Performance Levels	
Protector V2 Gloves	50 N				Level 1: >10 N Level 2: >25 N Level 3: >50 N Level 4: >75 N	
9340 ^GLOVES – PUNCTURE RESISTANCE EN 388:2016 6.5						
SAMPLE	Results				Performance Levels	
Protector V2 Gloves	50 N				Level 1: >20 N Level 2: >60 N Level 3: >100 N Level 4: >150 N	
9490 ^GLOVES – DESIGN AND CONSTRUCTION BS EN 420:2003 + A1: 2009						
SAMPLE	Results				REQUIREMENT	
Protector V2 Gloves	Meets Requirements				Shall meet the design and construction requirements	

9344 ^GLOVES - SIZING BS EN 420:2003 + A1: 2009						
SAMPLE		Results				
Protector V2 Gloves	Size: S found to be Size 5		Size: M found to be Size 5	Size: L found to be Size 6		
	Glove Length: 210 mm		Glove Length: 218 mm	Glove Length: 220 mm		
9344 ^GLOVES - SIZING BS EN 420:2003 + A1: 2009						
SAMPLE		Results				
Protector V2 Gloves	Size: XL found to be Size 6		Size: XXL found to be Size 7	Size: found to be Size		
	Glove Length: 223 mm		Glove Length: 230 mm	--		
9345 ^GLOVES - DEXTERITY BS EN 420:2003 + A1: 2009						
SAMPLE		Results				
Protector V2 Gloves	Specimen 1		Specimen 2		Specimen 3	
	Left:	8 mm	Left:	--	Left:	8 mm
	Right:	--	Right:	8 mm	Right:	--
9345 ^GLOVES - DEXTERITY BS EN 420:2003 + A1: 2009						
SAMPLE		Results				
Protector V2 Gloves	Specimen 4		Specimen --		Specimen --	
	Left:	--	Left:	--	Left:	--
	Right:	8 mm	Right:	--	Right:	--
0991 ^IMPACT RESISTANCE EN 388: 2016 6.6 BS EN 13594: 2015 (Clause 4.11) - Tested in accordance with Clause 6.9						
SAMPLE		RESULTS		REQUIREMENT		
D20 Public Order	Mass of Striker: 2.5 kg		Single Result: Leve; 1: ≤9.0 kN Level 2: ≤5.0 kN Mean Transmitted Force: Leve; 1: ≤5.0 kN Level 2: ≤4.0 kN			
	Impact Energy: 5 ±0.1 J					
	Test Area: Knuckles					
	Results (kN)					
	Highest Peak Force	4.9				
Mean Force		4.7				

6005 ^PH OF TEXTILE MATERIAL BS EN ISO 3071:2006 / ISO 3071: 2005							
SAMPLE	RESULTS					REQUIREMENTS	
Protector V2 Gloves	pH of Aqueous Extract					3.5<pH<905	
		Sample		Mean			
		Black Synthetic Fabric (Palm & Finger)		6.3			
		Grey Micro fibre (Palm & Lining)		6.2			
		Black Knitted (Back & Finger)		6.2			
		Black Fabric (Cuff)		6.7			
		Black Micro Fibre (Finger & Finer Grip)		6.5			
		Black Loop (Velcro)		6.4			
		Black Hook (Velcro)		6.3			
		Black Fabric (Lining)		6.5			
		Black Fabric (Cuff Binding)		6.4			
	Temperature of Solution:		22.7°C				
8022 ^DETECTION OF AMINES DERIVED FROM AZOCOLLOURANTS AND AZODYES BS EN 14362-1: 2012							
Protector V2 Gloves:- 1) Black Synthetic Fabric (Palm & Finger), 2) Grey Micro Fiber (Palm & Lining), 3) Black Knitted (Back & Finger), 4) Black Fabric (Cuff), 5) Black Micro Fiber (Finger & Finer Grip)							
By Gas Chromatographic – Mass Spectrometric (GC-MS) and High Performance Chromatographic (HPLC) analysis							
METHOD		Textile Method					
REQUIREMENTS		<30 mg/kg					
Banned Amine In Azo Dyes	CAS Number	Result					
		Samples					
		1	2	3	4	5	
4-Aminodiphenyl	92-67-1	ND	ND	ND	ND	ND	
Benzidine	92-87-5	ND	ND	ND	ND	ND	
4-Chloro-O-Toluidine	95-69-2	ND	ND	ND	ND	ND	
2-Naphthylamine	91-59-8	ND	ND	ND	ND	ND	
*o-Aminoazotoluene	97-56-3	ND	ND	ND	ND	ND	
*2-Amino-4-nitrotoluene	99-55-8	ND	ND	ND	ND	ND	
p-Chloroaniline	106-47-8	ND	ND	ND	ND	ND	
2,4-Diamino-Anisole	615-05-4	ND	ND	ND	ND	ND	
4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	ND	ND	
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND	ND	
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND	ND	
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND	ND	
4,4'diamino-3,3'-dimethylphenyl methane	838-88-0	ND	ND	ND	ND	ND	
p-Cresidine	120-71-8	ND	ND	ND	ND	ND	
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND	ND	ND	ND	ND	
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND	ND	
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND	ND	
o-Toluidine	95-53-4	ND	ND	ND	ND	ND	
2,4-toluylenediamine	95-80-7	ND	ND	ND	ND	ND	
2,4,5-Trimethyl aniline	137-17-7	ND	ND	ND	ND	ND	
o-Anisidine	90-04-0	ND	ND	ND	ND	ND	
**P-aminoazobenzene	60-09-3	ND	ND	ND	ND	ND	
Note:							
Detection limit: 5 mg/kg , ND: Not Detected, The allowed limit specified <30 mg/kg							
** EN 14362-3:2012 / ISO 17234-2: 2011 = P-Aminoazobenzene Method							
REACH Regulation (EC) NO. 1907/2006 Annex XVII Item 43 and its Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC)							

8022 ^DETECTION OF AMINES DERIVED FROM AZOCOLLOURANTS AND AZODYES BS EN 14362-1: 2012					
Protector V2 Gloves:- 6) Black Loop (Velcro), 7) Black Hook (Velcro), 8) Black Fabric (Lining), 9) Black Fabric (Cuff Binding).					
By Gas Chromatographic – Mass Spectrometric (GC-MS) and High Performance Chromatographic (HPLC) analysis					
METHOD		Textile Method			
REQUIREMENTS		<30 mg/kg			
Banned Amine In Azo Dyes	CAS Number	Result			
		Samples			
		6	7	8	9
4-Aminodiphenyl	92-67-1	ND	ND	ND	ND
Benzidine	92-87-5	ND	ND	ND	ND
4-Chloro-O-Toluidine	95-69-2	ND	ND	ND	ND
2-Naphthylamine	91-59-8	ND	ND	ND	ND
*o-Aminoazotoluene	97-56-3	ND	ND	ND	ND
*2-Amino-4-nitrotoluene	99-55-8	ND	ND	ND	ND
p-Chloroaniline	106-47-8	ND	ND	ND	ND
2,4-Diamino-Anisole	615-05-4	ND	ND	ND	ND
4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND
4,4'diamino-3,3'-dimethylphenyl methane	838-88-0	ND	ND	ND	ND
p-Cresidine	120-71-8	ND	ND	ND	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND
o-Toluidine	95-53-4	ND	ND	ND	ND
2,4-toluylenediamine	95-80-7	ND	ND	ND	ND
2,4,5-Trimethyl aniline	137-17-7	ND	ND	ND	ND
o-Anisidine	90-04-0	ND	ND	ND	ND
**P-aminoazobenzene	60-09-3	ND	ND	ND	ND

Note:

Detection limit: 5 mg/kg , ND: Not Detected, The allowed limit specified <30 mg/kg

** EN 14362-3:2012 / ISO 17234-2: 2011 = P-Aminoazobenzene Method

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9493 ^DETERMINATION OF pH in LEATHER BS EN ISO 4045: 2008		
SAMPLE	RESULTS	REQUIREMENTS
Protector V2 Gloves – Black Leather (Palm & Finger)	pH	
	Mean:	4.20
	Temperature of Solution:	22.7°C
3.5<pH<9.5		
9494 ^DETERMINATION OF CHROMIUM (VI) CONTENT BS EN ISO 17075: 2007 by UV-VIS Spectrophotometer		
SAMPLE	Results	REQUIREMENT
Protector V2 Gloves – Black Leather (Palm & Finger)	Not Detected	<3 mg/kg
^AZO DYES BS EN ISO 17234-1: 2015		
Protector V2 Gloves – Black Leather (Palm & Finger)		
Determination of Certain aromatic Amines derived from azo colourants follows by GC-MS Analysis		
REQUIREMENTS	<30 mg/kg	
Banned Amine In Azo Dyes	CAS Number	Result
4-Aminodiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-Chloro-O-Toluidine	95-69-2	ND
2-Naphthylamine	91-59-8	ND
*o-Aminoazotoluene	97-56-3	ND
*2-Amino-4-nitrotoluene	99-55-8	ND
p-Chloroaniline	106-47-8	ND
2,4-Diamino-Anisole	615-05-4	ND
4,4'-Diaminodiphenylmethane	101-77-9	ND
3,3'-Dichlorobenzidine	91-94-1	ND
3,3'-Dimethoxybenzidine	119-90-4	ND
3,3'-Dimethylbenzidine	119-93-7	ND
4,4'diamino-3,3'-dimethylphenyl methane	838-88-0	ND
p-Cresidine	120-71-8	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND
4,4'-Oxydianiline	101-80-4	ND
4,4'-Thiodianiline	139-65-1	ND
o-Toluidine	95-53-4	ND
2,4-toluylenediamine	95-80-7	ND
2,4,5-Trimethyl aniline	137-17-7	ND
o-Anisidine	90-04-0	ND
**P-aminoazobenzene	60-09-3	ND
Note:		
Detection limit: 5 mg/kg ND: Not Detected The allowed limit specified <30 mg/kg		
** EN 14362-3:2012 / ISO 17234-2: 2011 = P-Aminoazobenzene Method		
REACH Regulation (EC) NO. 1907/2006 Annex XVII Item 43 and its Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC)		



End of Report

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