



# TEST REPORT

Report Ref: LEHTX00101330	
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:	Rope Op
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 2
^Gloves – Puncture Resistance	EN 388 - 6.5		Level 2
^Gloves – Design & Construction	EN 420		Pass
^Gloves – Sizing	EN 420		See Results
^Gloves – Dexterity	EN 420		Level 5
^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  $\mbox{\sc Accreditation}.$ 

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)

LIKAS MANAGEMENT OF THE PROPERTY OF THE PROPER







9341 ^GLOVES (EN 388:20		I RESISTANC	E			
SAMPLE		Res	ults		Per	formance Levels
Rope Op Gloves	Holos dovoloped hafara 2000 avalos Level 2: greater ti			han 100 less than 500 cycles han 500 less than 2000 cycles han 2000 less than 8000 cycles than 8000 cycles		
9342 GLOVES - (EN 388:20		RESISTANCI	<b>E</b>			
SAMPLE			RESULTS			Performance Level:
			Sample 1			Level 1: 1.2
	I1	12	13	14	15	Level 2: 2.5
	2.3	2.1	1.8	1.2	1.2	Level 3: 5.0
Rope Op Gloves		Ave	erage Index:	1.7		Level 4: 10.0
Rope Op Gloves			Sample 2			Level 5: 20.0
	16	17	18	19	I10	
	1.2	1.2	1.4	2.3	2.3	:
		Av	erage Index:	1.7		
9343 GLOVES - (EN 388:20	TEAR STRE 16 6.4)	NGTH				
SAMPLE			Results			Performance Levels
Rope Op Gloves	35 N			Level 1: >10 N Level 2: >25 N Level 3: >50 N Level 4: >75 N		
9340 GLOVES - (EN 388:20		RESISTANCE	1			
SAMPLE			Results			Performance Levels
Rope Op Gloves			61 N			Level 1: >20 N Level 2: >60 N Level 3: >100 N Level 4: >150 N

BS EN 420:2003 + A1: 2009	

**GLOVES - DESIGN AND CONSTRUCTION** 

SAMPLE	Results	REQUIREMENT
Rope Op Gloves	Meets Requirements	Shall meet the design and construction requirements





9490



9344 GLOVES - BS EN 420	SIZING :2003 + A1: 2009				
SAMPLE		Re	esults		
	Size: S found to be Size 5		nd to be Size 6	Size: L fou	und to be Size 7
Rope Op Gloves	Glove Length: 218 mm	Glove Length	: 225 mm	Glove Lengt	h: 232 mm
9344 GLOVES - BS EN 420	SIZING :2003 + A1: 2009				
SAMPLE		Re	esults		
	Size: XL found to be Size 7		found to be ze 8	Size: for	und to be Size
Rope Op Gloves	Glove Length: 235 mm	Glove Length	: 240 mm		
	DEXTERITY :2003 + A1: 2009				
SAMPLE		Re	esults		
	Specimen 1	Speci	men 2	Spe	ecimen 3
Rope Op Gloves	Left: 5 mm	Left:		Left	5 mm
	Right:	Right:	5 mm	Right	
	DEXTERITY :2003 + A1: 2009				
SAMPLE		Re	esults		
	Specimen 4	Speci	men	Spe	ecimen
Rope Op Gloves	Left:	Left:		Left	:
	Right: 5 mm	Right:		Right	
	TEXTILE MATERIAL SO 3071:2006 / ISO 3071: 2005	•			
SAMPLE	F	RESULTS			REQUIREMENTS
	pH of A	queous Extrac	:t		
	Sample		Mear	n	
	Black Synthetic Fabric (Palm	& Finger).	6.7		
	Black Fabric (Back).		7.0		
Rope Op Gloves	Yellow Fabric (Back)	ı	7.0		3.5 <ph<905< td=""></ph<905<>
	Black Loop (Velcro)		7.1		5.5 -pi i -500
	Black Hook (Velcro)		6.4		
	Black Mesh (Back & Fin	ger).	6.5		
	Black Fabric Binding		6.4	4	
	Temperature of Solution	on:	22.7°	С	







### 8022 ^DETECTION OF AMINES DERIVED FROM AZOCOLOURANTS AND AZODYES BS EN 14362-1: 2012

Rope Ops Glove:-

1) Black Synthetic Fabric (Palm & Finger), 2) Black Fabric (Back), 3) Yellow Fabric (Back), 4) Black Loop (Velcro), 5) Black Hook (Velcro), 6) Black Mesh (Back & Finger), 7) Black Fabric Binding

By Gas Chromatographic - Mass Spectrometric (GC-MS) and High Performance Chromatographic (HPLC) analysis

METHOD	Textile Method
REQUIREMENTS	<30 mg/kg

-,-	3 3							
·					Result			
Banned Amine In Azo Dyes	CAS Number	Samples						
		1	2	3	4	5	6	7
4-Aminodiphenyl	92-67-1	ND	ND	ND	ND	ND	ND	ND
Benzidine	92-87-5	ND	ND	ND	ND	ND	ND	ND
4-Chloro-O-Toluidine	95-69-2	ND	ND	ND	ND	ND	ND	ND
2-Naphthylamine	91-59-8	ND	ND	ND	ND	ND	ND	ND
*o-Aminoazotoluene	97-56-3	ND	ND	ND	ND	ND	ND	ND
*2-Amino-4-nitrotoluene	99-55-8	ND	ND	ND	ND	ND	ND	ND
p-Chloroaniline	106-47-8	ND	ND	ND	ND	ND	ND	ND
2,4-Diamino-Anisole	615-05-4	ND	ND	ND	ND	ND	ND	ND
4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND	ND	ND	ND
4,4'diamino-3,3'-dimethylphenyl methane	838-88-0	ND	ND	ND	ND	ND	ND	ND
p-Cresidine	120-71-8	ND	ND	ND	ND	ND	ND	ND
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND	ND	ND	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND	ND	ND	ND
o-Toluidine	95-53-4	ND	ND	ND	ND	ND	ND	ND
2,4-toluylenediamine	95-80-7	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trimethyl aniline	137-17-7	ND	ND	ND	ND	ND	ND	ND
o-Anisidine	90-04-0	ND	ND	ND	ND	ND	ND	ND
**P-aminoazobenzene	60-09-3	ND	ND	ND	ND	ND	ND	ND

## Note:

Detection limit: 5 mg/kg ND: Not Detected

The allowed limit specified <30 mg/kg

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)





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





# 9493 \*DETERMINATION OF pH in LEATHER BS EN ISO 4045: 2008 RESULTS REQUIREMENTS Rope Op Gloves:-Black Leather (Palm) Mean: 4.25 3.5<pH<9.5</th> Temperature of Solution: 22.7°C

## 9494 ^DETERMINATION OF CHROMIUM (VI) CONTENT BS EN ISO 17075: 2007 by UV-VIS Spectrophotometer

SAMPLE	SAMPLE Results				
Rope Op Gloves:- Black Leather (Palm)	Not Detected	<3 mg/kg			

^AZO DYES BS EN ISO 17234-1: 2015

Rope Op Gloves:- Black Leather (Palm)

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 met	hane	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

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)



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







# **End of Report**

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct

REPORT NUMBER LEHTX000101330 Page 6 of 6



