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Tests Conducted:

1. pH Value

As Per BS EN 420:2003+A1:2009,4.3.2, With Reference To BS EN ISO 3071:2006 For Textile, KCI Solution/Deionized Water Was Used For Extraction, pH Value Was Measured By pH Meter.

	Tested Sample/Component	<u>Result</u>	<u>Requirement</u>
	(1)	7.1	*
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(2)	8.2	*
	(3)	7.9	*
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(4)	8.1	*
	(5)	7.9	*
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(6)	8.2	*
(8) 8.3 * (9) 7.8 * (10) 6.4 * (11) 6.7 * (12) 7.8 *	(7)	7.6	*
(9) 7.8 * (10) 6.4 * (11) 6.7 * (12) 7.8 *	(8)	8.3	*
(10) 6.4 * (11) 6.7 * (12) 7.8 *	(9)	7.8	*
(11) 6.7 * (12) 7.8 *	(10)	6.4	*
(12) 7.8 *	(11)	6.7	*
	(12)	7.8	*

Temperature Of The Extracting Solution: 20.0 $\,^\circ\!C$ pH Of The Extracting Solution:5.7

Remark: * = The pH Value Shall Be Greater Than 3.5 And Less Than 9.5. And For Method EN ISO 4045:2008 The Difference Figure Do Not Need To Test.

Tested Components:

Conclusion:		
Tested Components	Test Item/Standard	<u>Result</u>
$\frac{(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)}{(11)\&(12)}$	BS EN 420:2003+A1:2009 For pH Value	Pass





Tests Conducted :

2. Design And Construction (BS EN 420: 2003+A1: 2009, 4.1):

Sample (A)		<u>Requirement</u>	Pass/Fail
	Comply With Requirement	*	Pass
Remark: * =	The Protective Glove Shall Be Designed And Manu Foreseeable Conditions Of Use For Which It Is Inte Hazard Related Activity Normally Whilst Enjoying A Highest Possible Level. If Required, The Glove Sha Time Needed For Putting On And Taking Off. When The Glove Construction Includes Seams, Th Seams Shall Be Such That The Overall Performance Decreased.	factured So That In The ended, The User Can Per Appropriate Protection At all Be Designed To Minim e Material And Strength the Glove Is Not Si	form The The ize The Of The gnificantly





Tests Conducted :

4. Finger Dexterity Test (BS EN 420:2003+A1: 2009, 6.2):

Sample (A)	The Smallest Diameter Of Pin Picked Up
Specimen 1(Left Hand):	5 mm
Specimen 2(Right Hand):	5 mm
Specimen 3(Left Hand):	5 mm
Specimen 4(Right Hand):	5 mm
Performance Level:	5(*)

Remark: * = The Classification Is Determined By The Smallest Diameter Of Pin Picked Up Of The Four Test Specimens.

Remark:

Performance Level	The Smallest Diameter Of Pin Shall Be Picked Up
Level 1	11 mm
Level 2	9.5 mm
Level 3	8 mm
Level 4	6.5 mm
Level 5	5 mm





Tests Conducted :

Abrasion Resistance (BS EN 388: 2016, 6.1, 9 kPa): 5. Sample (A) Adhesion Contact Time Of Test Specimen With The At Least 5 Min Double-Sided Adhesive Tape Under A Weight Of A Approximatley 10 Kg Surface Treatment Of Test Specimen In Order To No Surface Treatment **Improve Adhesion** Abradant The Klingspor PL 31 B-Grit 180 Grain Aluminium Oxide 3M[™] Double-Sided Adhesive Tape Double-Sided Adhesive Tape Observation Specimen 1 Specimen 2 Specimen 3 Specimen 4 After 100 Cycles: 0 0 0 0 After 500 Cycles: 0 0 0 0 After 2 000 Cycles: 0 0 0 0 Х After 8 000 Cycles: Х Х Х Performance Level : 3 Remark: The Minimum Requirements For Each Level: Level 1: 100 Cycles Level 2: 500 Cycles Level 3: 2 000 Cycles Level 4: 8 000 Cycles Level 5: -O = No BreakthroughX = Breakthrough





Tests Conducted :

6. Blade Cut Resistance (BS EN 388:2016, 6.2):

Sample (A)

	Specimen 1 (Index)	Specimen 2 (Index)	
	I ₁ :1.5	I ₆ :1.5	
	I ₂ :1.5	I ₇ :1.6	
	I ₃ :1.6	I ₈ :1.6	
	I ₄ :1.6	I ₉ :1.6	
	I ₅ :1.5	I ₁₀ :1.5	
	Average Index:1.5	Average Index:1.6	
The Lowest Average Index:	5	1.5	
Performance Level :		1(*)	
Remark:			
The Minimum Requirements	For Each Level:		
Level 1: 1.2			
Level 2: 2.5			
Level 3: 5.0			
Level 4: 10.0			
Level 5: 20.0			
* = The Performance	e Level Is Defined As Tl	ne Lowest Average Index Va	alues Of Two Test Specimens
From The Differ	ent Gloves.		





Tests Conducted :

7. Resistance To Cutting By Sharp Objects (BS EN 388:2016, 6.3 & EN ISO 13997:1999):

Sample (A) Test Condition:	Temperature (20 \pm 2) °C; Relative Humidity (65 \pm 4)%
Blade Sharpness Correction Factor:	-
Normalized Cutting Stroke Length:	-
Result:	
Cutting Force (*):	#1
Performance Level (#) :	-

Remark: * = Calculated Force That Would Be Required To Be Applied To A Blade Of Standard Sharpness To Just Cut Through A Material In A Blade Stroke Of Length 20 mm. # = Levels Of Performance For Materials Tested With EN ISO 13997

	Level A	Level B	Level C	Level D	Level E	Level F
6.3 TDM: Cut Resistance (N)	2	5	10	15	22	30

Note: #1 = In Blade Cut Resistance Test, Test Specimens Did Not Dulled The Blade To Specified Degree. There Is No Need To Be Performed The EN ISO 13997:1999 Cut Resistance Method.

8. Tear Resistance (BS EN 388: 2016, 6.4):

Sample (A)

Specimen 1:	113 N
Specimen 2:	104 N
Specimen 3:	124 N
Specimen 4:	93 N
Performance Level:	4(*)

Remark: The Minimum Requirements For Each Level: Level 1: 10 N Level 2: 25 N Level 3: 50 N Level 4: 75 N Level 5: -* = The Classification Is Determined By Taking The Lowest Of The Four Values

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Tests Conducted :

9. Puncture Resistance (BS EN 388: 2016, 6.5):

Sample (A)	
Specimen 1:	72 N
Specimen 2:	77 N
Specimen 3:	73 N
Specimen 4:	84 N
Performance Level :	2(*)
Remark:	
Level 1: 20 N	
Level 2: 60 N	
Level 3: 100 N	
Level 4: 150 N	
Level 5: -	
Remark: * =	The Classification Is Determined By The Lowest Value Of The Four Test Specimens.





Tests Conducted :

10. Detection Of Amines Derived From Azocolourants and Azodyes:

With Reference To Test Method: Textile Method (EN 14362-1: 2012);

Amines Content Was Determined By Gas Chromatography-Mass Spectrometry (GC-MS) And High Performance Liquid Chromatography (HPLC)

	Forbidden Amine	CAS No.	Result (mg/kg)					
1.	4-Aminodiphenyl	92-67-1	1	2	3	4	5	6
2.	Benzidine	92-87-5	ND	ND	ND	ND	ND	ND
3.	4-Chloro-o-toluidine	95-69-2	ND	ND	ND	ND	ND	ND
4.	2-Naphthylamine	91-59-8	ND	ND	ND	ND	ND	ND
5.	o-Aminoazotoluene	97-56-3	ND	ND	ND	ND	ND	ND
6.	2-Amino-4-nitrotoluene	99-55-8	ND	ND	ND	ND	ND	ND
7.	p-Chloroaniline	106-47-8	ND	ND	ND	ND	ND	ND
8.	2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND	ND	ND
9.	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	ND	ND	ND
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND	ND	ND
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND	ND	ND
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND	ND	ND
13.	3,3'-Dimethyl-	838-88-0	ND	ND	ND	ND	ND	ND
	4,4'diaminodiphenylmethane							
14.	p-Cresidine	120-71-8	ND	ND	ND	ND	ND	ND
15.	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND	ND	ND	ND	ND	ND
16.	4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND	ND	ND
17.	4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND	ND	ND
18.	o-Toluidine	95-53-4	ND	ND	ND	ND	ND	ND
19.	2,4-Toluylenediamine	95-80-7	ND	ND	ND	ND	ND	ND
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND	ND	ND
21.	o-Anisidine	90-04-0	ND	ND	ND	ND	ND	ND
22.	4-Aminoazobenzene	60-09-3	ND	ND	ND	ND	ND	ND





Tests Conducted :

Detection Of Amines Derived From Azocolourants and Azodyes(Cont'd):

	Forbidden Amine	CAS No.	<u>Result (mg/kg)</u>					
1.	4-Aminodiphenyl	92-67-1	7	8	9	10	11	12
2.	Benzidine	92-87-5	ND	ND	ND	ND	ND	ND
3.	4-Chloro-o-toluidine	95-69-2	ND	ND	ND	ND	ND	ND
4.	2-Naphthylamine	91-59-8	ND	ND	ND	ND	ND	ND
5.	o-Aminoazotoluene	97-56-3	ND	ND	ND	ND	ND	ND
6.	2-Amino-4-nitrotoluene	99-55-8	ND	ND	ND	ND	ND	ND
7.	p-Chloroaniline	106-47-8	ND	ND	ND	ND	ND	ND
8.	2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND	ND	ND
9.	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	ND	ND	ND
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND	ND	ND
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND	ND	ND
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND	ND	ND
13.	3,3'-Dimethyl-	838-88-0	ND	ND	ND	ND	ND	ND
	4,4'diaminodiphenylmethane							
14.	p-Cresidine	120-71-8	ND	ND	ND	ND	ND	ND
15.	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND	ND	ND	ND	ND	ND
16.	4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND	ND	ND
17.	4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND	ND	ND
18.	o-Toluidine	95-53-4	ND	ND	ND	ND	ND	ND
19.	2,4-Toluylenediamine	95-80-7	ND	ND	ND	ND	ND	ND
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND	ND	ND
21.	o-Anisidine	90-04-0	ND	ND	ND	ND	ND	ND
22.	4-Aminoazobenzene	60-09-3	ND	ND	ND	ND	ND	ND

Remark: ND = Not detected Detection limit = 5 mg/kg Limit = 30 mg/kg

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Conclusion:		
Tested Components	Test Item/Standard	<u>Result</u>
(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)	Azocolourants Content Requirement In Annex XVII	Pass
(11)&(12)	Item 43 Of The REACH Regulation (EC) NO.	
	1907/2006 & Amendment No. 552/2009 and	
	126/2013 (Formerly Known As Directive 2002/61/EC)	

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