



## Report No. : CH:TX:8420041933

DATE : 02/08/2017

KOL - 4120

PRESIDENT SAFETY B.V.

P.O. BOX 100, 3220 AC HELLEVOETSLUIS-3220 AN

CONTACT PERSON : Mr. ROLF KRUINIGER

THE FULLOWING SAMPLE(S)	WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:
SAMPLE DESCRIPTION	GLOVES
	GOAT SKIN, SPLIT LEATHER
	4 TIP WELDERS GLOVE IN AB GRADE GOAT SKIN 0.7 / 0.9 MM CUFF IN SOFT SPLIT 0.9
	/ 1MM GUNN CUT
COLOUR	NATURAL
STYLE NO.	2.0332.428.10 8 CM CUFF / 2.03.32.430.10 10 CM CUFF/2.03.32.432.10 /12 CM
	CUFF/2.03.32.435.10 15 CM CUFF/2.03.32.438.10 18 CM CUFF/2.03.32.440 .10 20 CM CUFF

THE FOLLOWING SAMPLESS WASAWERE SUPMITTED AND IDENTIFIED BY/ON REHALF OF THE CUSTOMED AS .

COUNTRY OF DESTINATION COUNTRY OF ORIGIN PHOTO APPENDIX.



**NETHERLANDS** 

EUROPE

SAMPLE RECD ON	13/07/2017 <b>TESTING PERIOD</b> : 19/07/2017 - 27/07/2017						
Summary of Test Results							
Test Method		Test Name Status					
BS EN 12477:2001+A1.2005		Protective Gloves for welders. Refer enclosed pa					
	Protective gloves against thermal fisks (heat and/or fire.)						
EN 407:2004		Radiant heat	Peformance Level 2				
		Large quantities of molten metal	Peformance Level 2				
	Protec	ctive gloves – General requirements					
EN 420:2003+A1.2009		Sizing	Refer enclosed pages.				
	Water vapour transmission and absorption		Pass				
		Chromium VI	Pass				

Per pro SGS India Private Ltd.

K. Pan.

#### K. PACHAIYAPPAN ASST. MANAGER

Email your Test Report Related Enquiries at Feedback.SLT@sgs.com

#### Test results are extracted from CH:TX: 8420038725,Dtd 27/07/2017 and issued separate report.

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DATE: 02/08/2017

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# Report No. : CH:TX:8420041933

## RESULTS

BS EN 12477:2001+A1.2005 Protective Gloves for welders.

Clause	use Test Name Test Result		sult	Requirement		Status/ Performance	
		Method			Туре А	Type B	level
3.2	Minimum Length of Gloves (mm)	EN 420:2003 +A1:2009 (6.1)	358	361			/
3.4	Visual Observation	BS EN 12477:2001 +A1.2005	Observation : Th contain any elec connection betwee inside	Gloves shall be designed without electrical conductive connection between their outside and inside parts		Pass	
5.1	Abrasion Resistance (Cycles)	EN 388:2016 (6.1)	Palm / Back 500 500	500 500	Min: 500 Cycles	Min: 100 Cycles	Pass Type A&B Level 2
5.2	Cut Resistance (Index)	EN 388:2016 (6.2)	Palm 1.50 1.46 1.52 Avg:1.47 1.44 1.42	1.48 1.48 1.45 Avg:1.47 1.32 1.43	Min: 1.2 (Index)	Min: 1.2 (Index)	Pass Type A&B Level 1
5.3	Tear Resistance (N)	EN 388:2016 (6.4)	<b>Palm</b> 28.4 32.7	35.3 37.5	Min: 25 N	Min:10 N	Pass Type A&B Level 2
5.4	Puncture Resistance (N)	EN 388:2016 (6.5)	<b>Palm</b> 74.0 84.1	67.0 89.1	Min: 60 N	Min: 20 N	Pass Type A&B Level 2
5.5	Burning behaviour Ignition Time : 15s After Flame Time (s) After glow Time (s) Observation	EN 407:2004 (6.3)	0 0 O C Shell material gets m drips. The innermost surfac show any sign of melt The seam did not con ignition time of 15 s ir	elted but doesn't e of the glove did not ting ne apart after an	≤ 3s ≤ 25s If it melts, the shall not drip Furthermore innermost su the glove sha inspected. It no sign of me The seam sh come apart a ignition time the test area	the the Irface of all be shall show elting, hall not after an of 15 s in	Pass Type A&B Level 4

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## RESULTS

BS EN 12477:2001+A1.2005 Protective Gloves for welders.

Clause	Test Name	Standard/ Test	Result		Requ	irement	Status/ Performance		
		Method					Туре А	Туре В	level
5.6	Contact heat Resistance Contact Temp : 100°C Threshold Time (s)	ISO 12127 -1	Palm 26.8s 29.5s <u>31.6s</u> Avg: 29s		≥15s	≥15s	Pass Type A&B Level 1*		
5.7	Convective heat Resistance HTi <sub>24</sub> (s)	ISO 9151		Palm/B 9.6s 11.7 8.1s Avg:1	5 5 5		≥7s	-	Pass Type A&B Level 3*
5.8	Resistance to small splashes of molten metal The number of droplets to rise 40 °C	EN 348: 1992		Back/0 >35 >35 >35 >35 >35 Avg: >			≥25 Droplets	≥15 Droplets	Pass Type A&B Level 4*
5.9	Dexterity Smallest pin diameter (mm)	EN 420:2003 +A1:2009 (5.2)	5.0	5.0	5.0	5.0	Smallest diameter of pin 11 mm	Smallest diameter of pin 6.5 mm	Pass Type A&B Level 5
5.10	Electrical vertical resistance**	EN 1149-2: 1997	Palm/Ba	<b>ick</b> 7.13 X <sup>2</sup>	10 <sup>7</sup> Ω		>10 <sup>5</sup> Ω	>10 <sup>5</sup> Ω	Pass Type A&B

\*→ Level classified as per EN 407:2004.

\*\*→ Test was performed after 24 hours conditioning at a temperature of (20±2)°C and relative humidity of (85±3)%.

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## RESULTS

EN 407:2004 Protective gloves against thermal fisks (heat and/or fire.)

Test Name & Clause	Test Method	EN 407: 2004 Requirements		Results 0	Level	
5.4 Radiant heat	EN ISO 6942:2002 Method:B at 20kW/m <sup>2</sup>	Performance Level 1 2 3 4	<u>Heat transfer RHTI<sub>24</sub></u> ≥ 7s ≥ 20s ≥ 50s ≥ 95s	Back Specimen 1 2 Rounded Mean	<u>RHTI<sub>24</sub></u> 31.4s <u>26.8s</u> 29s	Pass Level-2
5.5 Large quantities of molten metal	ISO 9185 (Using Iron)	Performance Level 1 2 3 4	<u>Mass of Iron</u> ≥ 30 g ≥ 60 g ≥ 120 g ≥ 200 g	Back Mass of Iron 80 g 98 g 104 g 125 g Observation : No m remain stuck to the get ignited or punctu	specimen, doesn't	Pass Level-2

### EN 420 : 2003+A1: 2009 Protective Gloves - General requirements and test methods

Clause	Test Name	Re	sult	Average	Standard sizing
5.1	Sizing Circumference (mm) Length (mm)	275 279	278 280	276.5 279.5	10½

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Report No. : CH:TX:842004193	33	DATE : 02/08/2017
	RESULTS	KOL - 4120
WATER VAPOUR TRANSMISSION AND A EN 420: 2003+A1: 2009 (Method: 6.3 & 6.		<u>Req.</u>
PALM WATER VAPOUR TRANSMISSION WATER VAPOUR ABSORPTION	11.8 mg/(cm².h) 12.4 mg/cm²	Min: 5 mg/(cm².h) Min: 8 mg/cm²
Note: Requirements given as per EN 420:2	003+A1:2009 (Clause: 5.3).	
CHROMIUM -VI ISO 17075/Analysis by UV-VIS Spectroph	notometer	
GRAIN LEATHER - NATURAL CONTENT Recovery Rate : 94%	ND	3 mg/kg
<u>SPLIT LEATHER – NATURAL</u> CONTENT Recovery Rate : 93%	ND	3 mg/kg
Note : ND- Not Detected : Method Detection Note: Requirements given as per EN		

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