

**TEST REPORT**

**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 KRUIJNIGER**

**THE FOLLOWING 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.** 2.03..32.428.10 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

**COUNTRY OF DESTINATION** NETHERLANDS

**COUNTRY OF ORIGIN** EUROPE

**PHOTO APPENDIX.**



**SAMPLE RECD ON**

13/07/2017

**TESTING PERIOD : 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 page
EN 407:2004	Protective gloves against thermal risks (heat and/or fire.)	
	Radiant heat	Performance Level 2
	Large quantities of molten metal	Performance Level 2
EN 420:2003+A1.2009	Protective gloves – General requirements	
	Sizing	Refer enclosed pages.
	Water vapour transmission and absorption	Pass
	Chromium VI	Pass

Per pro SGS India Private Ltd.



**K. PACHAIYAPPAN**  
**ASST. MANAGER**

Email your Test Report Related Enquiries at [Feedback.SLT@sgs.com](mailto:Feedback.SLT@sgs.com)

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

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# RESULTS

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

Clause	Test Name	Standard/ Test Method	Result				Requirement		Status/ Performance level
							Type A	Type B	
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	<b>Observation</b> : The sample doesn't contain any electrical conductive connection between their outside and inside parts.				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)	<b>Palm / Back</b> 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)	<b>Palm</b> 1.50                      1.48 1.46                      1.48 1.52    Avg:1.47    1.45    Avg:1.47 1.44                      1.32 1.42                      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)	EN 407:2004 (6.3)	0                      0                      0 0                      0                      0				≤ 3s	≤ 10s	Pass Type A&B Level 4
	Observation		Shell material gets melted but doesn't drips.  The innermost surface of the glove did not show any sign of melting  The seam did not come apart after an ignition time of 15 s in the test area.				If it melts, the material shall not drip. Furthermore the innermost surface of the glove shall be inspected. It shall show no sign of melting, The seam shall not come apart after an ignition time of 15 s in the test area.		

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

Clause	Test Name	Standard/ Test Method	Result	Requirement		Status/ Performance level
				Type A	Type B	
5.6	Contact heat Resistance Contact Temp : 100°C Threshold Time (s)	ISO 12127 -1	<b>Palm</b> 26.8s 29.5s 31.6s Avg: 29s	≥15s	≥15s	Pass Type A&B Level 1*
5.7	Convective heat Resistance  HTi <sub>24</sub> (s)	ISO 9151	<b>Palm/Back</b> 9.6s 11.7s 8.1s Avg:10s	≥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	<b>Back/Cuff</b> >35 >35 >35 >35 Avg: >35	≥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	<b>Palm/Back</b> 7.13 X 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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**EN 407:2004 Protective gloves against thermal risks (heat and/or fire.)**

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

**EN 420 : 2003+A1: 2009 Protective Gloves – General requirements and test methods**

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

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**WATER VAPOUR TRANSMISSION AND ABSORPTION**

**EN 420: 2003+A1: 2009 (Method: 6.3 & 6.4)**

**Req.**

**PALM**

WATER VAPOUR TRANSMISSION 11.8 mg/(cm<sup>2</sup>.h)  
WATER VAPOUR ABSORPTION 12.4 mg/cm<sup>2</sup>

Min: 5 mg/(cm<sup>2</sup>.h)  
Min: 8 mg/cm<sup>2</sup>

Note: Requirements given as per EN 420:2003+A1:2009 (Clause: 5.3).

**CHROMIUM -VI**

**ISO 17075/Analysis by UV-VIS Spectrophotometer**

**GRAIN LEATHER - NATURAL**

CONTENT ND 3 mg/kg  
Recovery Rate : 94%

**SPLIT LEATHER - NATURAL**

CONTENT ND 3 mg/kg  
Recovery Rate : 93%

Note : ND- Not Detected : Method Detection Limit : 3 mg/kg  
Note: Requirements given as per EN 420:2003 +A1:2009 (Clause: 4.3.3).

\*\*\*\*\* End of Report\*\*\*\*\*