

APPLICATION FOR LVD TEST REPORT

On Behalf of

Prepared For : Jiujiang Fire Fighting Equipment Co., Ltd
No.1, Daqiao Road, Yujiahe, Lianxi District, Jiujiang City, Jiangxi
Province, China

Product Name : Fire Gloves
Model : JJXF-ST-2, JJXF-ST-2A

Prepared By : SHENZHEN POCE TECHNOLOGY CO., LTD.
H Building, Hongfa Science And Technology Park, Tangtou, Shiyan,
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Test Date : May 23, 2017 to May 28, 2017

Date of Report : May 28, 2017

Report No. : POCE18052505DRS

TEST REPORT**EN 659:2003+A1:2008
Protective gloves for firefighters**

Report Reference No. : POCE18052505DRS

Tested by (name and signature) : Eva

Approved by (name and signature) : Machael Mo

Date of issue : May 28, 2017

Testing Laboratory : Shenzhen POCE Technology Co., Ltd

Address : H Building, Hongfa Science And Technology Park, Tangtou, Shiyan,
Bao'an District, Shenzhen, China

Applicant's name : Jiujiang Fire Fighting Equipment Co., Ltd

Address : No.1, Daqiao Road, Yujiahe, Lianxi District, Jiujiang City, Jiangxi
Province, China

Test standard : EN 659:2003+A1:2008

Test item description : Fire Gloves

Trademark : JJXF

Manufacturer : Jiujiang Fire Fighting Equipment Co., Ltd

Address : No.1, Daqiao Road, Yujiahe, Lianxi District, Jiujiang City, Jiangxi
Province, China

Model(s) : JJXF-ST-2, JJXF-ST-2A



Possible test case verdicts:

- test case does not apply to the test object : N (Not applicable)
- test object does meet the requirement : P (Pass)
- test object does not meet the requirement : F (Fail)

Testing

Date of receipt of test item : May 23, 2017

Date(s) of performance of tests : May 23, 2017 to May 28, 2017

Copy of marking plate:**Fire Gloves**

Model: JJXF-ST-2

Jiujiang Fire Fighting Equipment Co., Ltd
Made in China**Fire Gloves**

Model: JJXF-ST-2A

Jiujiang Fire Fighting Equipment Co., Ltd
Made in China

EN 659:2003+A1:2008			
Clause	Requirement - Test	Result - Remark	Verdict
3	Requirements		P
3.1	General requirements		P
3.2	Sizes		P
	When measured according to 6.1 of EN 420:2003, the sizes shall correspond with those requirements established in the applicable clause of EN 420, but the minimum length shall be in accordance with table 1.	Size 7 (278mm)	P
	NOTE The user should take care that the gloves are compatible with the sleeves of the selected protective clothing and ensure that no skin is exposed when the arms are stretched.		P
3.3	Abrasion resistance		P
	The glove shall be tested according to the appropriate clause of EN 388, on the palm of the glove. When tested accordingly, it shall be in accordance with at least performance level 3 (2 000 cycles).	Level 3 (3960)	P
3.4	Cut resistance		P
	The glove shall be tested according to the appropriate clause of EN 388, both on the palm and the back of the glove. When tested accordingly, it shall be in accordance with at least performance level 2 (index 2.5).	Level 2 (index 8.4)	P
3.5	Tear resistance		P
	The glove shall be tested according to the appropriate clause of EN 388, on the palm of the glove. When tested accordingly, it shall be in accordance with at least performance level 3 (50 N).	Level 4 (78N)	P
3.6	Puncture resistance		P
	The glove shall be tested according to the appropriate clause of EN 388, on the palm of the glove. When tested accordingly, it shall be in accordance with at least performance level 3 (100 N).	Level 3 (106N)	P
3.7	Burning behaviour		P
	The glove shall be tested according to the appropriate clause of EN 407. When tested accordingly, it shall be in accordance with performance level 4 (after flame time < 2 s and after glow time < 5 s).		P
	The outside material of the glove shall not drip if the material melts. The seam shall not come apart in the test area after an ignition time of 15 s.		P
3.8	Convective heat resistance		P

	The material for firefighters' protective gloves shall be tested according to EN 367, both on the back and the palm of the glove. For each material or each material assembly, three samples shall be tested. When tested accordingly, each sample shall be in accordance with at least performance level 3 (HTI24 > 13) of EN 407. The result shall be given as the arithmetic mean of the three individual values and rounded to the nearest whole second.	HTI24 > 13	P
3.9	Radiant heat resistance		P
	A sample of size 80 mm x170 mm shall be taken from the backs of three individual fire-fighters' gloves and tested according to EN ISO 6942 with a heat flux of 40 kW/m ² . The value of RHTI 24 is calculated as the arithmetic mean of three values of t ₂₄ and stated to the nearest whole second. When tested accordingly, the value RHTI 24 shall be at least 20 and no individual value shall be less than 18."		P
3.10	Contact heat resistance		P
	The material for firefighters' protective gloves shall be tested according to EN 702, on the palm of the glove, with a contact temperature of 250°C. A sample with a diameter of 80 mm is taken from each palm area of three gloves. When tested accordingly, each sample shall have a threshold time t _t of at least 10 s.		P
	The gloves shall be tested both after wet conditioning (according to the relevant clause on pretreatments of ISO 15383) and dry conditioning (according to clause 4).		P
	For each conditioning, the arithmetic mean of the three individual values shall be calculated and rounded to the nearest whole second. The lowest mean shall be given as the test result.		P
3.11	Heat resistance of the lining material		P
	The lining material closest to the skin, when tested according to ISO 17493 at a minimum temperature of 180 °C, shall not melt, drip or ignite.		P
3.12	Heat shrinkage		P
	The glove, when tested according to ISO 17493 at 180°C shall not shrink more than 5 %.		P
3.13	Dexterity		P
	The glove shall be tested according to the dexterity test described in EN 420. When tested accordingly, the glove shall be in accordance with at least performance level 1 (smallest diameter of pin: 11 mm).	Level 4 (6.5mm)	P
3.14	Seam breaking strength		P
	When tested according to EN ISO 13935-2, the seam breaking force shall be at least 350 N.		P
3.15	Time for the removal of gloves		P

	Three pairs of gloves shall be donned and then removed by a test subject, after conditioning according to clause 4. The time for removal of each pair shall be recorded. The mean value shall be calculated and rounded to the nearest whole second.	1.2s	P
	This procedure shall be repeated after wet conditioning of three new pairs of gloves according to the relevant clause of ISO 15383 (without applying a pressure of 3,5 kPa).		P
	The mean value of time for removal of a pair of gloves, whether they are dry or wet, shall not be greater than 3 s.	1.2s	P
3.16	Resistance of glove material to water penetration (optional)		P
	If required for the application, material of the glove shall be tested for resistance to water penetration in accordance with the appropriate test method as follows:		P
	-For leather: 6.13 of EN ISO 20344:2004. The results shall be reported according to Table 2.		P
	For textile: EN 20811. The results shall be reported in accordance with EN 20811.		P
3.17	Whole glove integrity test		P
	If, for the end user, it is necessary to have waterproof gloves, then the glove shall be tested according to the relevant test method in ISO 15383, but with complete immersion of the glove up to the wrist line only.		P
3.18	Resistance to liquid chemical penetration		P
	Glove material shall be tested according to EN ISO 6530, at 20°C, using an application time of 10 s, with the following test chemicals:		P
	30 % by weight H ₂ SO ₄ ;		P
	40 % by weight NaOH;		P
	36 % by weight HCl;		P
	o-xylene.		P
	When tested accordingly, there shall be no penetration.		P
4	Preconditioning and testing conditions		P
	Before testing, the test samples shall be conditioned for at least 24 h in the following conditioning atmosphere.		P
	Temperature (20.2) °C;		P
	Relative humidity (65.5)		P
	Tests are preferably carried out in the conditioning atmosphere. If the tests are carried out under different climatic conditions, then this should be done within 5 min of the time the test samples were removed from the conditioning atmosphere.		P

	For protective gloves with a multilayer construction, the tests shall be carried out on all layers simultaneously, even if these, after removal, are no longer connected to one another.		P
5	Marking		P
	Each glove shall be marked with the number of this standard, i.e. EN 659, and the specific pictogram for firefighters (see figure 1). Otherwise, the marking shall be in accordance with the applicable clause of EN 420. For gloves which are only for firefighter use, no other pictograms relative to protection or applications shall be marked.		P
6	Information supplied by the manufacturer		P
	Information for use shall be in accordance with the applicable clause of EN 420.		P

Attachment I Photos of Product

Photo 1:



----- End of Report -----