

Testing of Protective Gloves

| Test item(s): | Leather oven glove and potholder – Vintage grey |
|--------------------|--|
| Туре: | Protective gloves and other hand protective equipments against thermal risks (heat and/or fire) |
| Customer: | Dutchdeluxes BV Leenderweg 182 5555 CJ Valkenswaard Netherlands |
| Applied method(s): | EN 407:2020, EN ISO 21420 and EN 388:2016 |

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SGS Fimko Oy

Takomotie 8 FI-00380 Helsinki Finland



1. Description and identification of test item(s)

| Following sample(s) were submitted and identified by the customer as: | | | | |
|---|----------------------------------|--|--|--|
| Tested item(s): | Leather oven glove and potholder | | | |
| | - Vintage Grey | | | |

| Material description: | Outer layer: 100% Buffalo leather, (1.3/ 1.5) mm |
|-----------------------|--|
| | 3-layer padding |
| | Lining: 100% CO, roughened on both sides, 400 g/m ² |

Following features were observed by a technician of SGS Fimko: Pictures of oven gloves:



Potholder, layers:

Oven glove, layers:

Pictures of potholders:

Outer layer/ padding/ lining/outer layer



2. Scope of testing

Testing date(s): 2023-03-06 - 2023-04-25 Tests were performed at the PPE laboratory of SGS Fimko Oy under accreditation scope, except determination of Chromium VI content which was subcontracted from another accredited laboratory.

Following tests were requested by the customer:

| Requirement | | Test method |
|---|--|---|
| Innocuousness - Chromium (VI) content* - pH value | EN 407:2020, 4.1 EN ISO 21420:2020, 4.2 a) and c) | ISO 17075-2:2017 ISO 4045:2018 EN ISO 3071:2006 |
| Tear resistance - as new | EN 388:2016, 4.1, table 1 | EN 388:2016, 6.4 |
| Contact heat - as new | EN 407:2020, 4.5.3 | EN 407:2020, 6.3 and EN ISO 12127-1:2015 |

* Subcontracted from SGS Turkey (TÜRKAK AB-0690-T)

2.1 Sampling and conditioning

Receiving date(s): 2023-02-03 and 2023-04-24

Condition: Intact

Sampling method: The customer supplied samples whereof specimens were cut.

Conditioning: Samples were conditioned at least 24 hours in an atmosphere having a temperature of (20 ± 2) °C and a relative humidity of (65 ± 5) % before testing.

3. Test results

3.1 Chromium (VI) content

Chromium (VI) was not detected from the leather when tested according to ISO 17075-2:2017. The detection limit of test equipment is under 3,0 mg/kg.

The test was carried out accredited laboratory of SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş. (CE 2218), TR2285350, 2023-03-27.

3.2 pH value

| Specimen | pH-value | | |
|----------|----------|------------------|--|
| | Leather | Lining + padding | |
| 1 | 3,8 | 6,3 | |
| 2 | 3,8 | 6,2 | |
| Mean | 3,8 | 6,3 | |

Specimens were cut from palm of the oven glove



3.3 Tear resistance

| Type of testing machine: | Lloyd, LRX Plus, 500 N |
|---------------------------|------------------------|
| Speed of the drawing jaw: | (100 ± 10) mm/min |
| Tested material: | Outer layer |
| | |

Gauge length: (50 Jaws: Co

(50 ± 1) mm Corrugated, 50 mm

| Specimen | Maximum force [N] |
|--------------|-------------------|
| 1 ↑ | 81 |
| 2 ↑ | 66 |
| 3 → | 70 |
| 4 → | 71 |
| Lowest value | 66 |

 $\uparrow \rightarrow$ Direction of the glove.

3.4 Contact heat, as new

| Oven glove | Contact temperature T _c [°C] | Threshold time t _t [s] | Hole formation, hardening, swelling, shrinking, melting |
|------------|--|--------------------------------------|---|
| 1 | 251 | 16 | No |
| 2 | 251 | 16 | No |
| 3 | 251 | 15 | No |
| | Lowest value | 15 | |

| Potholder | Contact temperature T _c [°C] | Threshold time t _t [s] | Hole formation, hardening, swelling, shrinking, melting |
|-----------|--|--------------------------------------|---|
| 1 | 251 | 26 | No |
| 2 | 250 | 34 | No |
| 3 251 | | 35 | No |
| | Lowest value | 26 | |



4. Summary

| Test | Acceptance criteria according to | | | Comments |
|------------------------------------|--|--|--|---|
| Chromium (IV) content - leather | | 420:2020, 4.2 a VI) content is le | | Oven gloves <i>meet the requirement</i> |
| pH value - padding + lining | EN ISO 214 3,5 ≤ pH va | 420:2020, 4.2 c lue ≤ 9,5 | ;) | Oven gloves <i>meet the requirement</i> |
| Tear resistance - as new | EN 388:201 Level 1 Level 2 Level 3 Level 4 | l6, 4.1, Table 1 [N] 10 25 50 75 | I | Oven glove <i>meets the requirement</i> Level of performance: 3 |
| Contact heat - as new | EN 407:202 Level 1 Level 2 Level 3 Level 4 | 20, 4.5.3 T _c [°C] 100 250 350 500 | t₁ [s] ≥ 15 ≥ 15 ≥ 15 ≥ 15 | Oven glove and potholder <i>meets the requirement</i> Level of performance: 2 |

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration. The relevant uncertainty value is obtainable upon request from the laboratory.

End of test report