

E-mail : ctcshanghai@ctcgroupe.com

sales2@tonsunsafety.com



TEST REPORT

Page 1/5

Report No.: S240606017 1

21 June 2024

APPLICANT: JIANGSU TONSUN SAFETY PRODUCTS CO., LTD (C34720) A2#512, NO777 JIANZHU WEST ROAD WUXI JIANGSU CHINA

Date of receipt :13 June 2024 :18 June 2024 Testing period :21 June 2024 Buyer: ---13G CUT-A9 liner, Foam Nitrile palm coating with nitrile dots Sample description: :C17590 Style / Article no. Test(s) requested :---

| Service | : REGULAR | Previous report | : |
|-----------------|-----------|------------------------------|-------------|
| Brand / Section | : | Product category | : |
| Season | : | Product type | : |
| End use | : | Test stage | :FIRST TEST |
| Factory name | : | Cumulian name | : |
| r dotory name | • | Supplier name | • |
| Factory code | : | Supplier name Exported to | : |

1. Conclusion:

| | Tests description | <u>Conformity</u> |
|---|--------------------------------|-------------------|
| | EN 388:2016+A1:2018 | |
| 1 | Abrasion resistance: 2016 | Level 4 |
| 2 | Cutting resistance TDM | Level F |
| 3 | Tear strength resistance: 2016 | Level 4 |
| 4 | Puncture resistance: 2016 | Level 3 |

Pass: requirements met Fail: requirements not met None: no requirement for this test <u>N/A</u>: not applicable

Approved by

Henry YAN 严滨 Laboratory Manager



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Page 2/5

Report No.: S240606017 1

21 June 2024

APPLICANT: JIANGSU TONSUN SAFETY PRODUCTS CO., LTD (C34720)

2. Sample(s) description assigned by laboratory:

| Size | Analyzed product | Description | Sample information | | | | |
|------|------------------------------------|-------------------------------|--------------------|--|--|--|--|
| | GLOVE | | | | | | |
| | | black(orange/white) | | | | | |
| | | nitrile(HPPE(high performance | | | | | |
| | polyethylene)/tungsten/steel) with | | | | | | |
| | | orange nitrile dots palm | | | | | |



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Page 3/5

Report No.: S240606017 1

21 June 2024

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3. GLOVE/

black(orange/white) nitrile(HPPE(high performance polyethylene)/tungsten/steel) with orange
nitrile dots palm

| (+) 4.1. Abrasion resistance: 2016 EN 388:2016 + A1:2018 Klingspor PL31B Grit 180 used consumables - abrasive 3M Scotch Number of cycles at the hole detection >8000 Number of cycles at the hole detection (2) >8000 Number of cycles at the hole detection (3) >8000 Number of cycles at the hole detection (4) >8000 Performance level 4 (+) 4.1. Cutting resistance TDM 20240224 Coefficient of variation % 2.3 Adjusted factor for blade with neoprene 0.94 Mean cut length on neoprene for a load of 5.0 N mm Normalized cutting stroke lengths mm Normalized cutting stroke lengths (2) mm Normalized cutting stroke lengths (3) mm Normalized cutting stroke lengths (5) mm Mean normalized cutting stroke length mm Stock and adjusted for a cut length of 20 mm mm Performance level M Alguest det for a cut length of 20 mm M Performance level Level F | | Method | Client Requirement | Unit | Result | Conformity |
|---|--|--------|-----------------------|------|-----------|------------|
| IndexIndexIndexused consumables - adhesiveIndex3M ScotchNumber of cycles at the hole detectionIndex8000Number of cycles at the hole detection (3)Index8000Number of cycles at the hole detection (4)Index8000Performance levelIndex8000(+) 4.4 (+) 4.4 (+) 4. 20240224(-)IndexIndex(-)Index </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| Number of cycles at the hole detection (2)SecondSecondNumber of cycles at the hole detection (3)SecondSecondNumber of cycles at the hole detection (4)SecondSecondPerformance levelMumber of cycles at the hole detection (4)SecondSecondPerformance levelMumber of cycles at the hole detection (4)SecondSecond(+) 4. Mumber of cycles at the hole detection (4)SecondSecond(+) 4. SecondSecondSecond(+) 4. SecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecond< | used consumables - abrasive | | | | | |
| Number of cycles at the hole detection (2) Number of cycles at the hole detection (3)>8000Number of cycles at the hole detection (4)>8000Performance level4(+) 4.1. Cutting resistance TDM EN ISO 13997:199920240224used consumables - blade%2.3Coefficient of variation%2.3Adjusted factor for blade with neoprene%9.4Mornalized cutting stroke lengthsMm21.2Normalized cutting stroke lengths (3)Mm9.8Normalized cutting stroke lengths (5)Mm33.5Mean normalized cutting stroke lengthsMm30.7Normalized cutting stroke lengthMm20.3Normalized cutting stroke lengthMm30.7Normalized cutting stroke lengthMm30.7Normalized cutting stroke lengthMm30.3Mean normalized cutting stroke lengthMm30.3Normalized cutting stroke lengthMm30.3Mean normalized cutting stroke lengthMm30.3Normalized cutting stroke lengthMm30.3Mean normalized cu | used consumables - adhesive | | | | 3M Scotch | |
| Number of cycles at the hole detection (3) Number of cycles at the hole detection (4)>8000Performance level-4(+)4.1. Cutting resistance TDMEN ISO 13997:199920240224used consumables - blade%2.3Coefficient of variation%2.3Adjusted factor for blade with neoprene0.94Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengths (5)mm20.3Normalized cutting stroke lengthMm20.3Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthMm20.3Normalized cutting stroke lengthMm39.7Normalized cutting stroke lengthMm39.7Normalized cutting stroke lengths (5)Mm33.5Mean normalized cutting stroke lengthMm20.3Normalized cutting stroke lengthMm39.2 | Number of cycles at the hole detection | | | | >8000 | |
| Number of cycles at the hole detection (4) Performance level>8000>8000Performance level44(+) 4.1. Cutting resistance TDMEN ISO 13997:199920240224used consumables - blade%2.3Coefficient of variation%2.3Adjusted factor for blade with neoprene%0.94Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (2)mm9.8Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Normalized cutting stroke lengthMm20.3Normalized cutting stroke lengthMm39.7Normalized cutting stroke lengths (5)Mm30.2Mean normalized cutting stroke lengthMm20.3Mean normalized cutting stroke lengthMm39.2 | Number of cycles at the hole detection (2) | | | | >8000 | |
| Performance levelImage: Construction of the second sec | Number of cycles at the hole detection (3) | | | | >8000 | |
| (+)4.1. Cutting resistance TDMEN ISO 13997:1999EN ISO 13997:199920240224used consumables - blade%2.32.3Coefficient of variation%2.30.94Adjusted factor for blade with neoprene0.94mm21.2Mean cut length on neoprene for a load of 5.0 Nmm5.6mmNormalized cutting stroke lengthsmm5.6mmNormalized cutting stroke lengths (2)mm9.89.8Normalized cutting stroke lengths (3)mm9.830.7Normalized cutting stroke lengths (5)mm33.53.5Mean normalized cutting stroke lengthmm20.3NCut load adjusted for a cut length of 20 mmmm39.239.2 | Number of cycles at the hole detection (4) | | | | >8000 | |
| 13997:1999Image: space | Performance level | | | | 4 | |
| Coefficient of variation%2.3Adjusted factor for blade with neoprene0.940.94Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (2)mm13.1Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Mean normalized cutting stroke lengthMm39.2 | (+) 4.1. Cutting resistance TDM | | | | | |
| Adjusted factor for blade with neoprene0.94Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (2)mm13.1Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm20.3Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmNN39.2 | used consumables - blade | | | | 20240224 | |
| Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (2)mm13.1Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Mean normalized cutting stroke lengthMm39.2 | Coefficient of variation | | | % | 2.3 | |
| 5.0 NImage: Solution of the second of the secon | Adjusted factor for blade with neoprene | | | | 0.94 | |
| Normalized cutting stroke lengths (2)mm13.1Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmN39.2 | | | | mm | 21.2 | |
| Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmN39.2 | Normalized cutting stroke lengths | | | mm | 5.6 | |
| Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmN39.2 | Normalized cutting stroke lengths (2) | | | mm | 13.1 | |
| Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmN39.2 | Normalized cutting stroke lengths (3) | | | mm | 9.8 | |
| Mean normalized cutting stroke length mm 20.3 Cut load adjusted for a cut length of 20 mm N 39.2 | Normalized cutting stroke lengths (4) | | | mm | 39.7 | |
| Cut load adjusted for a cut length of 20 mm 39.2 | Normalized cutting stroke lengths (5) | | | mm | 33.5 | |
| mm | Mean normalized cutting stroke length | | | mm | 20.3 | |
| Performance level Level F | | | | N | 39.2 | |
| | Performance level | | | | Level F | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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Page 4/5

Report No.: S240606017 1

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| | | | CO., LTD (C34720) | | | |
|--|---|---|-------------------|--------|------------|--|
| | Method | Client Requirement | Unit | Result | Conformity | |
| | 60.00 50.00 40.00 30.00 10.00 0.00 | r=-105.4ln(x) + 895.29 R ⁴ = 0.5272 | 6000 | | | |
| (+) 4.1. Tear strength resistance: 2016 | EN 388:2016 + A1:2018 | | | | | |
| Tear strength | | | N | >75 | | |
| Tear strength (2) | | | N | >75 | | |
| Tear strength (3) | | | N | >75 | | |
| Tear strength (4) | | | N | >75 | | |
| Performance level | | | | 4 | | |
| (+) 4.1. Puncture resistance: 2016 | EN 388:2016 + A1:2018 | | | | | |
| Puncture resistance | | | N | 108 | | |
| Puncture resistance (2) | | | N | 104 | | |
| Puncture resistance (3) | | | N | 114 | | |
| Puncture resistance (4) | | | N | 109 | | |
| Performance level | | | | 3 | | |

END OF TEST REPORT

(+)CNAS accreditation

Unless otherwise specified, the physical test items in this report performed in CTC Shanghai lab were conditioned and tested in the environment of T 23±2°C / RH 50±4%.

Table of Performance Level for Glove

| Test Item | | | Performa | nce Level | | |
|--|------|-----|----------|-----------|------|---|
| | 0## | 1 | 2 | 3 | 4 | 5 |
| Abrasion Resistance (EN 388) Number of cycles (minimum) | <100 | 100 | 500 | 2000 | 8000 | |



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Page 5/5

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| Tear Resistance (EN 388) Force (N) (minimum) | <10 | 10 | 25 | 50 | 75 | |
|---|-----|----|----|-----|-----|--|
| Puncture Resistance (EN 388) Force (N) (minimum) | <20 | 20 | 60 | 100 | 150 | |

Performance level 0 means the glove falls below the minimum performance level for the given individual hazard

Levels of performance for materials tested with EN ISO 13997

| | Level | Level | Level | Level | Level | Level |
|-----------------------------|-------|-------|-------|-------|-------|-------|
| | A | B | C | D | E | F |
| 6.3 TDM: cut resistance (N) | 2 | 5 | 10 | 15 | 22 | 30 |

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