



PPE
certification



SOLUTIONS FOR PPE GLOVES FOR US MARKET



Helping you to test and certify your PPE

Contact us
on wechat



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CTC is a specialist for PPE assessment all over the world, at the workplace but also for domestic application.

CTC offers laboratory testing, certification and training.

CTC will provide you a personal team of experts (sales executives, coordinators and technical experts) that personally lead you through the procedure of the PPE testing, examination and/or certification.



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ANSI/ISEA 105

Cut Resistance

Tested according to **ASTM F2992**

| LEVEL | WEIGHTS (GRAMS) needed to cut through material with 20 mm of blade travel |
|-------|---------------------------------------------------------------------------|
| A1 | ≥ 200 |
| A2 | ≥ 500 |
| A3 | ≥ 1000 |
| A4 | ≥ 1500 |
| A5 | ≥ 2200 |
| A6 | ≥ 3000 |
| A7 | ≥ 4000 |
| A8 | ≥ 5000 |
| A9 | ≥ 6000 |

Abrasion Resistance

Tested according to **ASTM D3384** and **ASTM D3389**

| LEVEL | ABRASION CYCLES TO FAIL |
|----------------------|-------------------------|
| 0 | > 100 |
| 1 | ≥ 100 |
| 2 | ≥ 500 |
| 3 | ≥ 1000 |
| tested at 1000g load | |
| 4 | ≥ 3000 |
| 5 | ≥ 10000 |
| 6 | ≥ 20000 |

Puncture Resistance

Other than Hypodermic needle **5.1.2**

Tested according to **EN 388**

Hypodermic needle **5.1.3**

Tested according to **ASTM F2878**

| LEVEL | 5.1.2 PUNCTURE RESISTANCE (N) | 5.1.3 PUNCTURE RESISTANCE (N) |
|-------|-------------------------------|-------------------------------|
| 0 | < 10 | < 2 |
| 1 | ≥ 10 | ≥ 2 |
| 2 | ≥ 20 | ≥ 4 |
| 3 | ≥ 60 | ≥ 6 |
| 4 | ≥ 100 | ≥ 8 |
| 5 | ≥ 150 | ≥ 10 |

Dexterity

Tested according to **EN 420**



CHEMICAL PROTECTION

Chemical Permeation resistance

Tested according to **ASTM F739**

| LEVEL | STANDARD BREAKTHROUGH TIME (MINUTES) |
|-------|--------------------------------------|
| 0 | < 10 |
| 1 | ≥ 10 |
| 2 | ≥ 30 |
| 3 | ≥ 60 |
| 4 | ≥ 120 |
| 5 | ≥ 240 |
| 6 | ≥ 480 |

Chemical Degradation resistance

Tested according to **ANSI/ISEA 105 Appendix B**

| LEVEL | PUNCTURE RESISTANCE CHANGE (%) |
|-------|--------------------------------|
| 0 | > 80 |
| 1 | ≤ 80 |
| 2 | ≤ 60 |
| 3 | ≤ 40 |
| 4 | ≤ 20 |

CHEMICAL TESTS

Tested according to **California Proposition 65**

For your compliance programs, **CTC can give you testing recommendations** for products classified as footwear, gloves, apparel, travel goods, etc.

ANSI/ISEA 138

Impact Resistance

| LEVEL | MEAN (KN) | ALL IMPACT (KN) |
|-------|-----------|-----------------|
| 1 | ≤ 9 | ≤ 11.3 |
| 2 | ≤ 6.5 | ≤ 8.1 |
| 3 | ≤ 4 | ≤ 5 |



N° 1-0130



Hong-Kong



Shanghai : N° L4577
Dongguan : N° L5912



N° 160921341119
N° 2016192132Z

3 regional offices in China:

Xiamen, Wenzhou and Goami/Qingdao.

More than **40 years** of experience in PPE testing.

CTC Guaranties

EN ISO 17025 accredited laboratories.

Headquarter, research centre and main laboratories in Lyon, France.

3 laboratories in China:

Hong Kong, Shanghai and Dongguan.

Active participation in the **CEN** (European) and **ISO** (International) **Technical Committees.**