CUT STANDARDS
ANSI / EN 388

CUT RESISTANT HAND PROTECTION

ANSI

ASTM F2992: TDM CUT TEST

Results are represented by levels A1 to A9
(Lowest to highest level of cut resistance)

** Previously represented as levels 1 to 5, ISEA 105-2011*

GRAMS ≥ **200** (201-499)	**A1** LIGHT
GRAMS ≥ **500** (500-999)	**A2** LIGHT - MEDIUM
GRAMS ≥ **1000** (1000-1499)	**A3** MEDIUM
GRAMS ≥ **1500** (1500-2199)	**A4** MEDIUM - HEAVY
GRAMS ≥ **2200** (2200-2999)	**A5** HEAVY
GRAMS ≥ **3000** (3000-3999)	**A6** EXTRA HEAVY
GRAMS ≥ **4000** (4000-4999)	**A7** EXTRA HEAVY
GRAMS ≥ **5000** (5000-5999)	**A8** EXTREME
GRAMS ≥ **6000** (6000+)	**A9** EXTREME

EN 388

ISO 13997: TDM CUT TEST

Results are represented by levels A to F
(Lowest to highest level of cut resistance)

** Previously represented as levels 1 to 5, Coup Test*

A 2 (2-4.9) NEWTONS	LIGHT
B 5 (5-9.9) NEWTONS	LIGHT - MEDIUM
C 10 (10-14.9) NEWTONS	MEDIUM
D 15 (15-21.9) NEWTONS	MEDIUM - HEAVY
E 22 (22-29.9) NEWTONS	HEAVY
F 30 (30+) NEWTONS	EXTRA HEAVY

1 Newton = 102 Grams (approx.)

TDM CUT TEST METHOD:
Weight (Newtons/Grams) needed to cut through material with 20 mm blade travel.

EN 388

4 X 4 4 D P

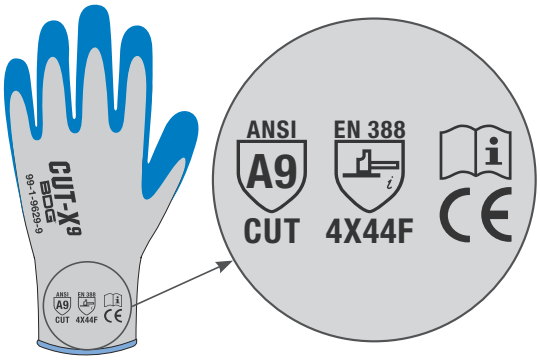
- **Abrasion** Resistance **0-4** Rating
- Cut (Coup Test) **0-5** Rating
- **Tear** Resistance **0-4** Rating
- **Puncture** Resistance **0-4** Rating
- **Cut (TDM Cut Test)** **A-F** Rating
- **Impact** Protection **P** (P, F, or X)

2 different tests - 1 common test machine

Testing standards for cut resistant gloves have changed for ANSI and EN 388. Both now use the same measuring device, the TDM-100 machine, resulting in more comparable data between the standards. The TDM tests the amount of weight (grams/newtons) necessary for a blade to cut through material. This test method provides greater accuracy than the previous EN 388 Coup test, and has the ability to test higher cut materials and provide a larger range of precision results.

BDG®'s commitment to safety

Data acquired from these tests aid in proper selection of the right glove for the task at hand.



What the standards mean for you?

Hand safety not only relies on selecting the right glove - but selecting the right glove for the task at hand. From lightweight product handling to heavy duty hazardous work, **BDG® CUT-X** gloves offer a diverse glove selection for many work environments.

The above information is for educational purposes only. For the most accurate and up-to-date information please consult your respective governing bodies (ANSI/ISEA 105-2016 and/or EN 388 2016).