



The Original

COLOUR CODED SAFETY GLOVES

Invented by TraffiGlove

EN 388:2016

A REVISED STANDARD

EN 388:2016 EXPLAINED

A new version of EN 388, the standard used to regulate cut protection in safety gloves, was published in November 2016.

Our hands are amazingly versatile, allowing us to carry out everyday tasks and precision movements with minimal effort. However, this also means they are exposed to a multitude of hazards in the workplace.

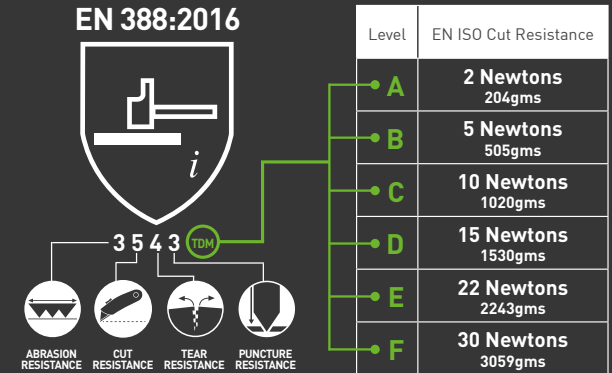
Cuts and lacerations are the most common type of hand injury, meaning it is absolutely critical to wear the correct safety glove for the task at hand. To help users determine a glove's cut resistance, the EN 388 standard uses index values to rate the performance level of a glove in protecting the user against numerous mechanical risks including:

- Abrasion
- Blade cut
- Tear
- Puncture
- Impact

High performance fibres and materials (such as fibreglass or steel) are used to achieve greater levels of cut protection in safety gloves. Due to this, testing procedures and classifications are regularly improved and adapted to ensure the degree of cut level protection is truly representative.

Any sample fabric testing for cut resistance using the 'Coupe Blade Cut Test', which blunts the blade during the test, will have to also be tested using the new EN ISO test (TDM).

This is to ensure the degree of protection provided by the glove is as accurate as possible. If blunting occurs during the 'Coupe Blade Cut Test', then the results of the TDM cut test will be the default marking shown on the glove, and the 'Coupe Blade Cut Test' value will be marked as X.



CURRENT TEST METHOD

Up until now, the 'Coupe Blade Cut Test' has been the standard test method for cut protection. A rotating circular blade moves horizontally to-and-fro across a fabric sample with a fixed force of 5 Newton's (N) applied from above. The test ends when the blade breaks through the sample material and the result is specified as an index value. This result is determined by the cycle count needed to cut through the sample and additionally by calculating the degree of wear and tear on the blade.

EN ISO 13997 – A NEW CUT TEST

For safety gloves created with materials designed to have a blunting effect on blades, additional cut protection tests must now be carried out and verified.

Any sample fabric testing for cut resistance using the 'Coupe Blade Cut Test', which blunts the blade during the test, will have to also be tested using the new EN ISO test. This is to ensure the degree of protection provided by the glove is as accurate as possible.

HOW EN ISO 13997 WORKS

The objective of this new cut protection test is to determine the resistance of the safety glove by applying the sample fabric with great force in a single movement. To this end, a sharp-edged blade is dragged over the sample fabric once. This allows the accurate calculation of the minimum force required to cut the sample material at a thickness of 20mm. The result is displayed in Newton's. There are 6 cut levels identified in the new EN ISO cut method.

WHY IS THE NEW CUT TEST NEEDED?

The EN ISO 13997 test provides a new category of cut protection to help keep hands safe.

The 'Coupe Blade Cut Test' method offers an effective representation for cuts caused by sharp, fairly lightweight objects. On the other hand, the new EN ISO test gives a more accurate specification in terms of cut resistance during work which includes differing impact-based hazards. Additionally, cut resistance ratings have changed with the introduction of EN ISO, meaning there are now 6 possible grades.

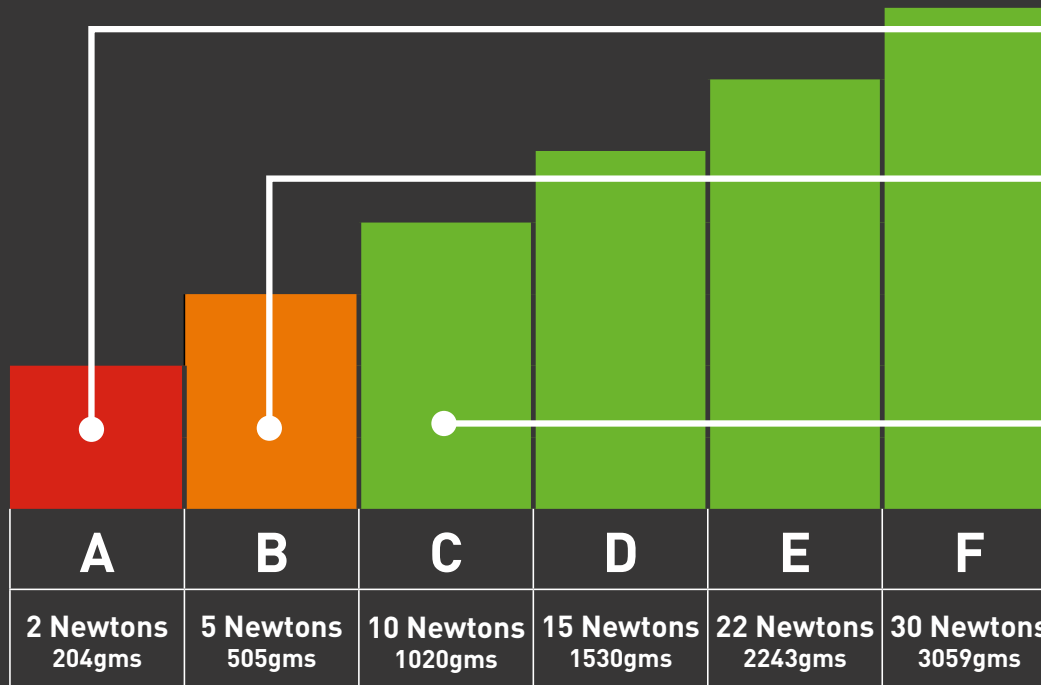
However, it should be noted that if a sample fabric performs well in one test method it may not mean it will also achieve good results in the other.

HOW IT LOOKS IN PRACTICE & WHAT THE CHANGES MEAN FOR USERS

- This change only affects new products being certified. All pre-existing EN 388 certifications continue to be valid until a new certification is necessary (max 5 years).
- Products with higher levels of cut protection can be identified.
- Accompanying this, the abrasion test method has been revised and the PL31B standardised paper may affect some glove abrasion scores going forward, due to the abradant properties of the paper being more closely controlled. This will provide more accuracy in abrasion performance assessment ratings on all new certification.

EN 388:2016

WORKING WITH THE TRAFFISYSTEM



RED cut level resistant gloves provide protection for a wide range of low cut risk tasks, such as general product handling, warehouse and assembly line work and some low risk construction jobs. The RED colour serves as a warning, reminding the wearer to consider whether further protection is required when switching to a different task. Such gloves are also a good choice for supplying to site visitors who are required to wear them to comply with safety regulations.



Our **AMBER** gloves offer a medium level of cut protection, which makes them the ideal choice for second fix construction trades, mechanical and electrical trades, steel fixing and handling materials with sharp edges. The AMBER gloves are finished with a variety of coatings to give you plenty of choice within the range.



Our **GREEN** gloves provide the higher levels of cut protection, so should be used when carrying out greater cut risk tasks such as applying cladding, swarf and metal work and handling glass or sheet metal with sharp edges. They also provide the higher protection necessary when dealing with unknown risks, for example, in the waste and recycling industries.

All change

Cogs are in motion and we've already begun the process of transitioning our gloves from cut levels 1-5 to A-F. However, this process will take time as there is no correlation between test methods. During the next 12 months, all current EN 388:2003 TraffiGlove products will be carefully reviewed and made compliant to the 2016 standard.

We'll be sure to keep you up-to-date on any such changes or when new exciting products enter our range, taking cut levels to new heights.

Please note until 2023, the old coupee test EN 388:2003 products are still valid, and although importing will stop from April 2019, they may still be available in the market place.

For information on the EN 388 standard or our glove range, get in touch on 01344 207090 or info@traffiglove.com

We can only recommend which cut level we believe will be suitable for your tasks based on feedback and testing. Ultimately, it comes down to your company's risk assessment and user trials to ensure the correct glove is chosen.



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