




**STANDARDS CHANGE.  
THE LEGENDARY PROTECTION OF  
DUPONT™ KEVLAR® CONTINUES.**

**DARE  
BIGGER™**

  
**Kevlar.**



**THE REVISED EN 388 STANDARD\* WILL  
IMPROVE TRANSPARENCY AROUND CUT  
PERFORMANCE SO YOU CAN MAKE A MORE  
INFORMED DECISION ABOUT THE RIGHT  
GLOVE FOR YOUR APPLICATION.**

\*As proposed in its final draft EN 388:2016.





EN 388, the European standard for protective gloves, is recognized globally. The most significant change is the formal inclusion of the ISO 13997 cut test method, with the intent in the future to replace the Coup test.

## ISO 13997 PROVIDES MORE CONSISTENT, MORE ACCURATE RESULTS

ISO 13997, also known as the TDM-100 test method, is designed to better simulate real-world situations such as an accidental cut or slash. Until this revision, EN 388 only required use of the Coup test to assess the cut resistance on all protective glove materials, with the ISO method being optional.

Although the Coup test has been maintained in the standard for now, if after a certain number of cycles the material has not been cut, it is a requirement to test the material using ISO 13997. Failure to cut using the Coup test occurs when testing high-performance materials due to dulling of the blade.

Under the revised standard, cut performance results will continue to be reported in Newtons, and the levels achieved through the use of the TDM-100 test method will be lettered A through F to avoid confusion with Coup test method levels 1 through 5. It is important to note that there is no correlation between the Coup test method and the TDM-100 test method.

Other changes include a new impact protection threshold and a change to the abrasion test.

## WHAT THIS MEANS FOR YOU

Glove performance has improved significantly in recent years as new yarns and new technologies have been developed. As a result, there are more high cut protection gloves to choose from than ever before. The revised EN 388 standard will help you choose the right protection with greater precision and accuracy than before. The chart shown to the right provides a comparison of the old and new pictograms, with details about the new levels A through F.

## ANSI/ISEA 105 STANDARD

OLD STANDARD		NEW STANDARD	
LOAD (GRAMS)	ANSI/ISEA 105-11	LOAD (GRAMS)	ANSI/ISEA 105-16
<200	0	<200	-
201-499	1	201-499	A1
500-999	2	500-999	A2
1000-1499	3	1000-1499	A3
1500-3499	4	1500-2199	A4
>3500	5	2200-2999	A5
		3000-3999	A6
		4000-4999	A7
		5000-5999	A8
		>6000+	A9

ITEMS HIGHLIGHTED IN YELLOW REPRESENT THE EXPANDED ANSI/ISEA CUT STANDARD.



OLD STANDARD	EXAMPLE	
ABRASION (CYCLES)	LEVEL 2	← 2
CUT (COUP TEST)	LEVEL 5	← 5
TEAR (N)	LEVEL 4	← 4
PUNCTURE (N)	NOT TESTED	← X



NEW STANDARD	EXAMPLE	
ABRASION (CYCLES)	LEVEL 2	← 2
CUT (COUP TEST)	NOT TESTED	← X
TEAR (N)	LEVEL 4	← 4
PUNCTURE (N)	NOT TESTED	← X
CUT (TDM-100 TEST)	LEVEL E	← E
IMPACT PROTECTION	ACHIEVED	← P

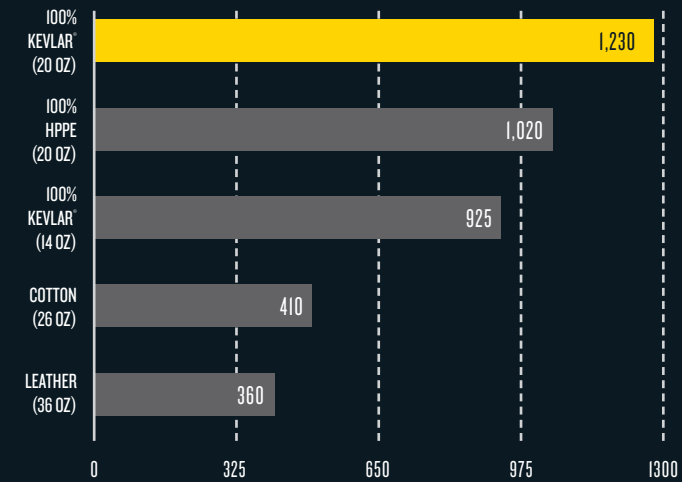
	LEVEL A	LEVEL B	LEVEL C	LEVEL D	LEVEL E	LEVEL F
TDM CUT RESISTANCE (N)	2	5	10	15	22	30

## PORTFOLIO OF PROVEN SOLUTIONS

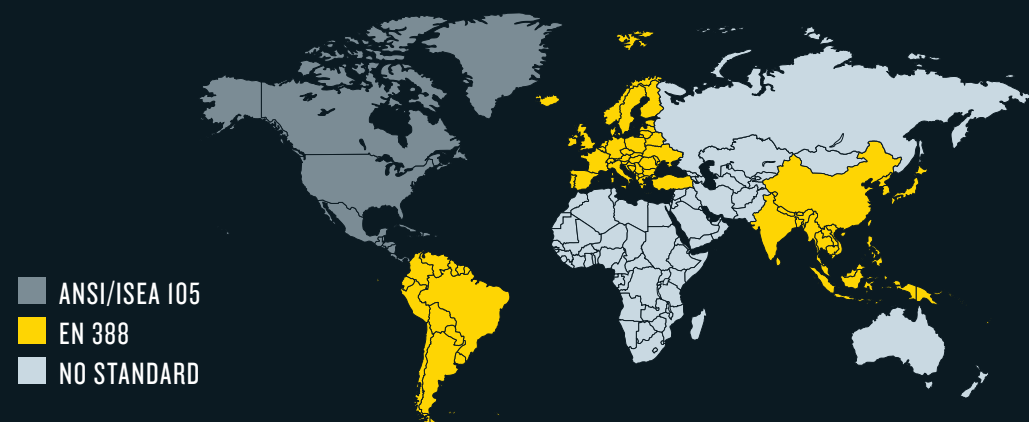
DuPont™ Kevlar® patented technology offers manufacturers the ability to make the lightest weight, highest performing gloves possible. And our new Kevlar® engineered yarns provide greater levels of cut, heat and durability protection than ever before.

## CUT RESISTANCE OF TYPICAL GLOVES USING TDM-100

DUPONT™ KEVLAR® FIBER DELIVERS THE HIGHEST CUT RESISTANCE



## GLOBAL RECOGNITION OF CUT STANDARDS





To learn more about EN 388, as well as recent ANSI standard changes, go to [kevlar.com](http://kevlar.com).

DuPont™ SafeSPEC™ can help you specify the right glove for your application.

[SafeSPEC.DuPont.com](http://SafeSPEC.DuPont.com)

**GENUINE KEVLAR® FOR LEGENDARY PROTECTION**

**DARE  
BIGGER™**



**Kevlar.**