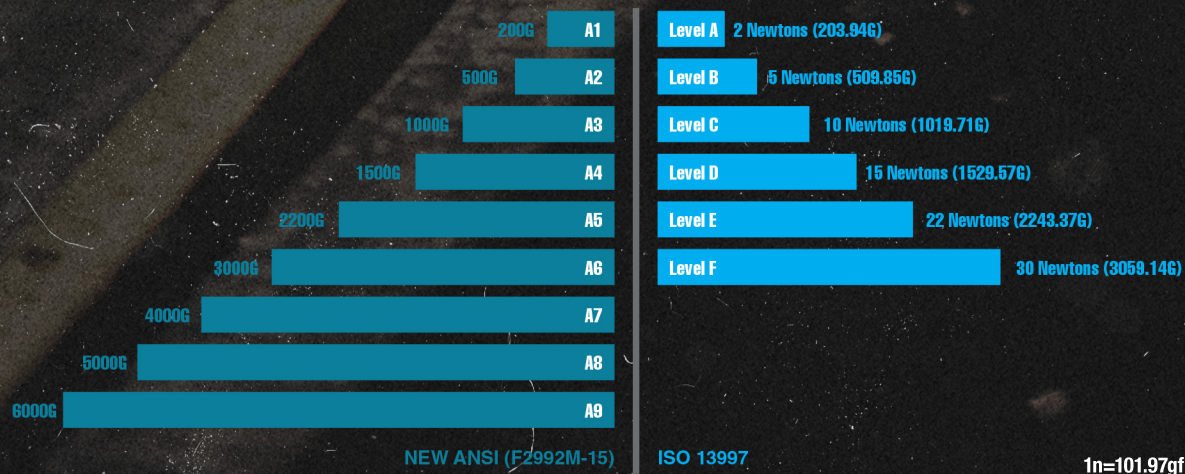




CUT RESISTANT STANDARDS

In January 2016 the American National Standards Institute (ANSI) introduced a new standard called the ANSI/ISEA 105. The goal for updating this standard was to create consistency between ANSI and EN388 methods as well as to account of the recent advances in cut resistant yarns and technologies. Both the new ANSI F2992-15 cut test method and EN ISO 13997 now use the same TDM-100 machines and as a result, their scores now roughly correlate as you can see illustrated in the chart below.

NEW ANSI vs EN 388 CUT STANDARDS



The 2016 revision of the ANSI/ISEA 105 standard is a more expanded level of classification of cut resistance:

- The ANSI ASTM F2992-15 cut test method now features 9 levels of cut resistance: A1-A9 with smaller increments between levels
- Additional levels have also been added to the higher end of the cut resistance scale to account for new cut resistant materials and technologies coming on to the market.

For the EN 388 cut test ratings, both the Coup Test cut score and ISO 13997 rating are required to be represented on the En 388 score.

- The new ISO 13997 rating is represented by the letters A-F at the end of the score

EN388 AND ANSI PICTOGRAMS

EN388: 2016 Pictogram:
The EN 388 rating is scored from (A-F)



Abrasion Resistance Rating: **Level 1-4**
Cut Resistance Rating (Coup): **X**
Tear Resistance Rating (Newtons): **Level 1-4**
Puncture Resistance Rating (Newtons): **Level 1-4**
Cut Resistance Rating (TDM Score): **A-F**
Impact Resistance Rating: **P, F or X**
(P for 'Pass', F for 'Fail', or X can be displayed for 'not tested')

ANSI/ISEA 105 Icon:
Abrasion, cut and puncture ratings



CHOOSE YOUR CUT LEVEL

ANSI/ISEA 105		EN388: 2016	
Cut rating from A1-A9 (9 levels)	Measured in Grams of Force 1gf = 0.0098N	EN 388	Measured in Newtons 1N = 101.97gf
ANSI/ISEA 105		EN 388	
X X		XXXXX	
Materials		Application	
Metal Mesh/ Engineered Yarns	6000+ gf A9	Extreme Glass Manufacturing, Recycling Sorting, Metal Fabrication	
	5000 - 5999 gf A8		
Engineered Yarns	4000 - 4999 gf A7	High Automotive Assembly, Pulp Paper, Aerospace Industry	
	3000 - 3999 gf A6	F 30 N (3059 gf)	
	2000 - 2999 gf A5	E 22 N (2243 gf)	
	1500 - 1999 gf A4	D 15 N (1529 gf)	
	1000 - 1499 gf A3	C 10 N (1019 gf)	
Synthetics Polyester/Nylon	500 - 999 gf A2	B 5 N (309 gf)	
	200 - 499 gf A1	A 2 N (203 gf)	
		Low Hazards General purpose material handling with sharp edges	