Key to Hand Classifications

In November 2024, there was an update to the ANSI/ISEA 105 standard. This revision was prepared by members of the Hand Protection Group of the International Safety Equipment Association (ISEA) in which Delta Plus is deeply involved!

Here is what you need to know about the changes to the ANSI/ISEA 105 American National Standard for Hand Protection:

CUT RESISTANCE

Cut Levels	Protects Against	Applications By Cut Level
A1 Light cut hazards (200 gf) **A2** Light/Medium cut hazards (500 gf) **A3** Light/Medium cut hazards (1000 gf)	Protect against scrapes	Material handling, small parts assembly (sharp edges), packaging, warehouse, general purpose, forestry, construction, pulp and paper, automotive assembly
A4 Medium cut hazards (1500 gf) **A5** Medium/Heavy cut hazards (2200 gf)	Protect against cuts for which stitches would be required	Appliance manufacturing, bottle and light glass handling, canning, drywall work, electrical, carpet installation, HVAC, pulp and paper, automotive assembly, metal fabrication and handling, packaging, warehouse, aerospace industry, food/prep processing
A6 High cut hazards (3000 gf)	Protect against cuts for which stitches would be required	Metal stamping, metal recycling, pulp and paper (changing slitter blades), automotive assembly, metal fabrication, sharp metal stampings, glass manufacturing, window manufacturing, recycling plant/sorting, HVAC, food prep/processing, meat processing, aerospace industry
A7 High cut hazards (4000 gf) **A8** High cut hazards (5000 gf) **A9** High cut hazards (6000 gf)	Protection against brutal or extreme injuries	

**gf - grams-force*

ABRASION RESISTANCE

500 GRAM LOAD	
0	< 100 Revolutions N/A
1	≥ 100 Revolutions LIGHT
2	≥ 500 Revolutions LIGHT - MEDIUM
3	≥ 1000 Revolutions MEDIUM
1000 GRAM LOAD	
4	≥ 3000 Revolutions MEDIUM - HEAVY
5	≥ 10000 Revolutions HEAVY
6	≥ 20000 Revolutions EXTRA HEAVY

PUNCTURE RESISTANCE

	Puncture (Newtons) non-hypodermic needle	
0	< 10	Paper/Cardboard Cuts, Light Material Handling, Parts Assembly
1	≥ 10	Light Construction, Material Handling, Parts Assembly, Packaging
2	≥ 20	Light Construction, Material Handling, Parts Assembly, Packaging
3	≥ 60	Construction, Light Metal Stamping, Light Glass Handling, Manufacturing
4	≥ 100	Construction, Metal Stamping, Glass Handling, Recycling, Injection Molding
5	≥ 100	Oil & Gas, Mining, Heavy Construction, Demolition, Manufacturing, Fabrication