ANSI/ISEA 105-2023 **BRASION LEVELS**

ANSI/ISEA 105 Abrasion testing identifies the performance characteristics of hand and arm protection products against abrasive contact. The testing standards measure how quickly a hole is formed, in PPE products such as gloves and sleeves, after repetitive contact with abrasive material. Another important aspect of this testing is that it provides a way of measuring the length of wear or how long a glove will last before it wears out. An ANSI/ISEA 105 Abrasion Performance Level of 6 indicates that a glove would potentially last twice as long as an ANSI/ISEA 105 Abrasion Level 5 glove. The result is classified on levels 0-6.

Overview of Hand and Arm Injuries



of all preventable work injuries are to the hands and arms



ANSI/ISEA 105-2023 **Abrasion Testing Process**



Material to be tested is placed on the rotating base.



Abrasive wheels are lowered to contact testing material.



Rotating base turns. The counter tracks how many times the base turns before contact is made through the material.



Test is performed with a silver 500 or 1000 gram weight load.



Abrasion Levels **Testing Results**

ABRASION LEVEL	100-499 cycles 500G load
ABRASION LEVEL	500-999 cycles 500G load
ABRASION LEVEL	1,000-2,999 cycles 500G load
ABRASION LEVEL	3,000-9,999 cycles 1,000G load
ABRASION LEVEL	10,000-19,999 cycles 1,000G load
Abrasion Level	≥ 20,000 cycles 1,000G load

Abrasion Levels **Common Industries**

Common industries that may utilize the ANSI/ISEA 105 Abrasion levels are listed below. Keep in mind that these are not a complete list, but only examples of gloves and sleeves that may work for these applications. You should speak to a safety professional before purchasing PPE to identify appropriate hand and arm protection for the job.



Inspection, Painting, Food Processing

Electronic Assembly, Pharmaceutical Use



General Assembly, Small Parts Assembly, Automotive



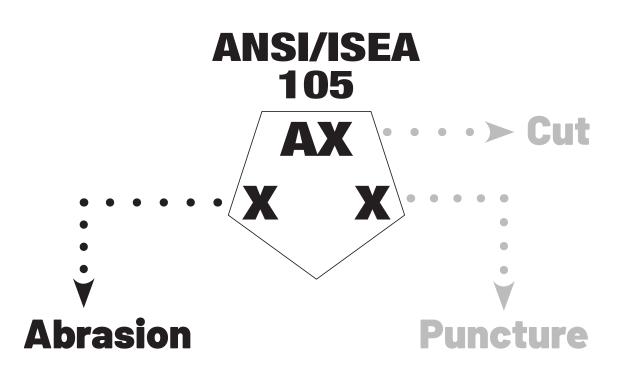
Metal Fabrication, Carpentry, Construction



Landscaping, Brick, Stone Work, Warehouse, Mechanics

Oil and Gas, Heavy Equipment, Mining

ANSI/ISEA 105-2023 **New Icon Designation**



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