

STANDARD

ANSI/ISEA 105-2016

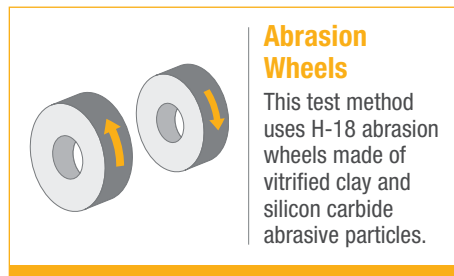
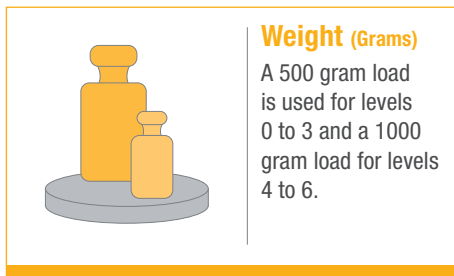
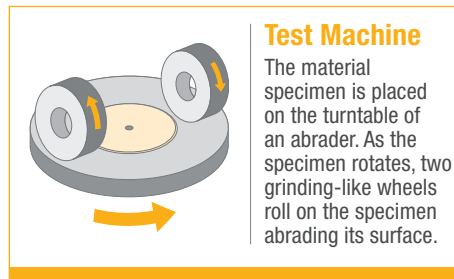
American National Standard for Performance and Classification
for Abrasion Resistant Gloves



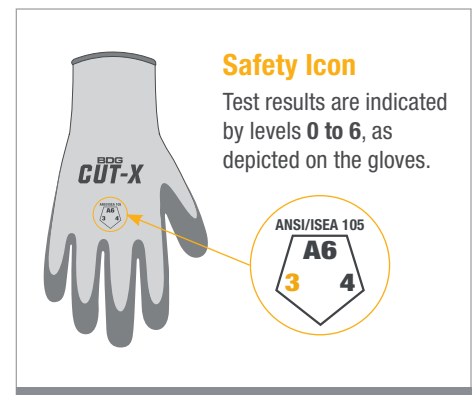
ABRASION RESISTANT

ANSI/ISEA 105-2016 establishes performance levels, testing and classification for gloves designed to provide abrasion resistance while performing occupational tasks.

The standard, based on ASTM D3389-10 (coated glove fabrics or unsupported gloves) and ASTM D3884-09 (uncoated glove fabrics), tests the glove's abrasion resistance by determining the number of revolutions (abrasion cycles) to failure. The test method uses a 4-inch circular sample (cut from the palm) mounted on a horizontal axis platform while being abraded to failure under a specified vertical weight load (500 or 1000 grams) by the sliding rotation of two vertically oriented H-18 abrading wheels comprised of vitrified clay and silicon carbide abrasive particles. The results, recorded in revolutions, are represented by levels 0 to 6, with the greater number being the higher level of 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



Abrasion resistance testing measures how well the glove resists loss of material from rubbing on rough surfaces. The greater number of abrasion cycles (revolutions) until failure indicate a greater abrasion resistance.



Tests are verified by an accredited third party laboratory.

BDG
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