

ANSI/ISEA 105-2000 PERFORMANCE LEVEL CLASSIFICATIONS

The American National Standards Institute (ANSI) and the International Safety Equipment Association (ISEA) have developed guidelines that help assure the safety of consumers. Where appropriate, we've included the ANSI rating to give you a better understanding of the level of protection a specific product offers. The following charts explain the numbers so you can confidently choose a glove that provides adequate protection for your application.

The Cut Protection Performance Test (CPPT) is an ASTM F 1790 standard cut test. The cut performance rating measures the amount of force (in grams) applied for failure to occur at a 25-mm distance of travel for a standard cutting blade. The higher the value, the better the cut performance. The performance rating is classified by **ANSI/ISEA 105-2005** from a 0-5 level based on the outcome of the CPPT test.

| ANSI Performance Level CPPT Range (grams) | |
|---|---------|
| 0 | < 200 |
| 1 | > 200 |
| 2 | > 500 |
| 3 | > 1,000 |
| 4 | > 1,500 |
| 5 | > 3,500 |

The Taber Abrasion Test is an ASTM D 3389 abrasion test. This test method covers the determination of the wear resistance of fabrics coated with rubber or plastics to abrasion. The abrasion is measured by mass loss in grams.

A four-inch circular test specimen is mounted on a horizontal-axis platform while being abraded to failure under a specified vertical weight load (of 500 or 1,000 grams) by the sliding rotation of two vertically oriented abrading wheels. The abrading wheels are comprised of vitrified clay and silicon carbide abrasive particles. The results, recorded in revolutions, are classified by ANSI/ISEA 105-2000 Hand Selection Criteria as follows:

| Performance Level | Abrasion (revolutions) |
|------------------------------------|------------------------|
| (tested at 500 g vertical force) | |
| 0 | < 100 |
| 1 | ≥ 100 |
| 2 | ≥ 500 |
| 3 | ≥ 1,000 |
| (tested at 1,000 g vertical force) | |
| 4 | ≥ 3,000 |
| 5 | ≥ 10,000 |
| 6 | ≥ 20,000 |