

# STANDARD ANSI/ISEA 105-2016

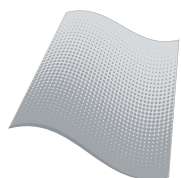
American National Standard for Performance and Classification  
for Puncture Resistant Gloves



PUNCTURE RESISTANT

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

The standard, based on the EN 388 testing method, tests the maximum force required for a blunt puncture probe to penetrate a specimen held firmly between two plates in a sample holder. The blunt probe used in the test is similar to a ballpoint pen in size and shape, and penetrates the test fabric at a 90° angle at 100mm/min. Increasing weights are added to achieve puncture of the glove material. Multiple tests are conducted and the average is recorded to give the final newton rating (ranging from 10 to 150 newtons). These results are represented by levels 1 to 5, with the greater number being the higher level of puncture resistance.



#### Glove material sample

Sample taken from glove palm and secured between two plates in a sample holder.



#### Weight (Newtons)

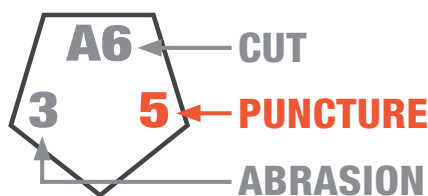
Weight is added as force required, ranging between 10 to 150 newtons.



#### Blunt puncture test

A blunt probe is placed at 90° to the test material and force is applied to penetrate the fabric at 100mm/min.

## ANSI/ISEA 105



## NEW Safety Icon

New pentagon-shaped icon combining ANSI/ISEA 105 Abrasion, Cut and Puncture resistance standards.

*No changes to current testing methods.*

NOT ALL PUNCTURE RESISTANT GLOVES PROTECT AGAINST NEEDLESTICK PUNCTURES. When working with hypodermic needles and other fine objects, choose a glove tested to the ASTM F2878 standard for resistance to needle puncture.



Tests are verified by an accredited third party laboratory.

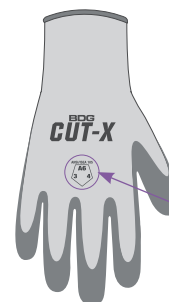
**1**  $\geq 10$  Newtons  
**LIGHT**

**2**  $\geq 20$  Newtons  
**LIGHT - MEDIUM**

**3**  $\geq 60$  Newtons  
**MEDIUM**

**4**  $\geq 100$  Newtons  
**MEDIUM - HEAVY**

**5**  $\geq 150$  Newtons  
**HEAVY**



#### Safety Icon

Test results are indicated by levels **1 to 5**, as depicted on the gloves.



**BDG**  
BOB DALE GLOVES

For the latest safety standards, classifications, testing criteria and ratings information, please refer to the appropriate governing body or association. Information contained in this document is subject to change without notice. As BDG® cannot control or anticipate the conditions under which a product may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, Bob Dale Gloves and Imports Ltd., and/or its affiliates, employees or representatives will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this sheet. No express or implied warranties are given other than those implied mandatory by law. BDG® products are not cut and puncture proof. Do not use with moving blades, tools or serrated blades.

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