

STANDARD

ANSI/ISEA 105-2024

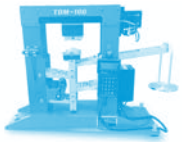
American National Standard for Performance and Classification
for Cut Resistant Gloves



CUT RESISTANT

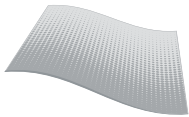
ANSI/ISEA 105-2024 establishes performance levels, testing and classification for gloves designed to provide cut resistance while performing occupational tasks.

This standard, based on the ASTM F2992-15 testing method, uses a Tomodynamometer (TDM-100) machine to measure the amount of weight (grams) necessary for a blade to cut through material. Increasing weights are added to achieve cut-through on the glove material. The blade is replaced after each cut and weight (grams) is added until cut-through is obtained. Multiple tests are conducted and the average is recorded to give the final gram rating (ranging from 200 to 6000 grams). These results are represented by levels A1 to A9, with the greater number being the higher the level of cut resistance.



TDM-100 Cut test machine

ASTM F2992-15 testing method.



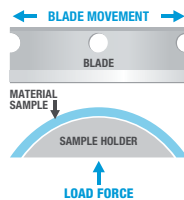
Glove material sample

Sample taken from glove palm and placed on machine.



Weight (Grams)

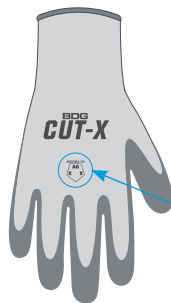
Weight is added as force required, ranging between 200 to 6000 grams.



Test blade

A straight blade moves horizontally across the material sample.

A new blade is used for every individual test.



Safety Icon

Test results are indicated by levels A1 to A9, as depicted on the gloves.

A1

≥ 200 Grams

LIGHT

A2

≥ 500 Grams

LIGHT - MEDIUM

A3

≥ 1000 Grams

MEDIUM

A4

≥ 1500 Grams

MEDIUM - HEAVY

A5

≥ 2200 Grams

HEAVY

A6

≥ 3000 Grams

EXTRA HEAVY

A7

≥ 4000 Grams

EXTRA HEAVY

A8

≥ 5000 Grams

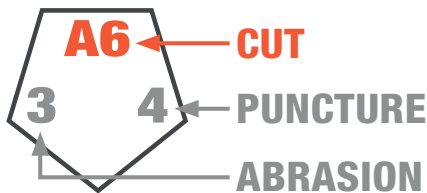
EXTREME

A9

≥ 6000 Grams

EXTREME

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.



Tests are verified by an accredited third party laboratory.

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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