

STANDARD

ANSI/ISEA 105-2016

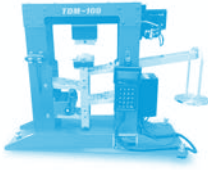
American National Standard for Performance and Classification for Cut Resistant Gloves



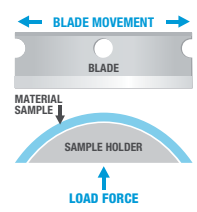
CUT RESISTANT

ANSI/ISEA 105-2016 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.



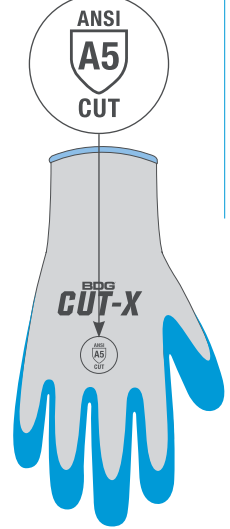
TDM-100 Cut test machine
ASTM F2992-15 testing method.




Test blade
A straight blade moves horizontally across the material sample.
A new blade is used for every individual test.



Glove material sample
Sample taken from glove palm and placed on machine.



Cut resistant gloves
Test results are represented by levels A1 to A9, as depicted on the gloves.



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

ANSI A1	≥ 200 Grams	LIGHT
ANSI A2	≥ 500 Grams	LIGHT - MEDIUM
ANSI A3	≥ 1000 Grams	MEDIUM
ANSI A4	≥ 1500 Grams	MEDIUM - HEAVY
ANSI A5	≥ 2200 Grams	HEAVY
ANSI A6	≥ 3000 Grams	EXTRA HEAVY
ANSI A7	≥ 4000 Grams	EXTRA HEAVY
ANSI A8	≥ 5000 Grams	EXTREME
ANSI A9	≥ 6000 Grams	EXTREME

Tests are verified by an accredited third party laboratory.



Bob Dale Gloves is a member of the ISEA (International Safety Equipment Association).

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