



**PUNCTURE  
RESISTANT  
MATERIAL**

## **POWERCUT® WITH ALYCORE™ CUT & PUNCTURE RESISTANT MATERIAL**

Majestic PowerCut® gloves made with patented Alycore™ offers cut, puncture and needle resistance like no other product has before. Composed mostly of super-thin threads of iron and carbon, Alycore™ is lightweight, flexible, breathable, recyclable, and washable while providing ultimate protection.



### **MEASURING PUNCTURE RESISTANCE**

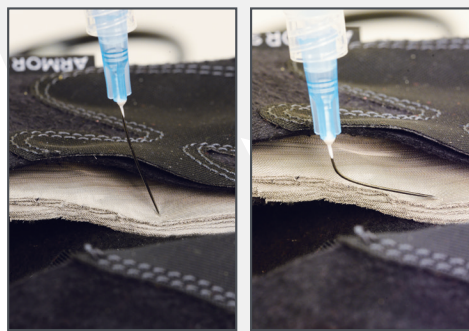
#### **Standard Probe**

EN388 test protocol measures a material's puncture resistance by forcing a thick, solid puncture probe, similar to a nail, through the material at a fixed speed. The puncture resistance is then rated by the amount of force or pressure required to penetrate through the material.

#### **Needles, Glass, Metal, Wire & Splinters**

Majestic recognizes that many puncture hazards cannot be measured by the standard EN388 minimum requirement for testing. The standard probe test simulates large puncture threats but fails to accurately characterize puncture resistance to high-risk hazards. These hazards include hypodermic needles, wire, glass & glass fragments, metal shards, and wood splinters.

In addition to the EN388 protocol for puncture resistance, Majestic intensifies the safety standard and measures a glove's puncture resistance according to the ASTM F2878 Standard by forcing a 25 gauge syringe needle through the material at a fixed speed. This measures the material's resistance to other puncture hazards commonly found in the workplace but not addressed by the EN388 standard.



25 gauge needle buckling

25 gauge needle failure

#### **Conclusion**

As companies evaluate employee hand protection against all puncture hazards, it is critical to measure puncture resistant claims by the penetrating object. The rounded probe, larger than the end of a ballpoint pen used in the EN388 test does not accurately simulate the degree and scope of puncture hazards employees typically encounter.

**Reliability in Safety.**



All safety equipment should be selected in conjunction with an approved safety program that assesses your specific hazards. The selection and use of specific products sold by Majestic is exclusively within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Majestic affect the results obtained in applying these products. Inappropriate selection and/or use of safety products may cause serious injury.



Majestic Glove  
2510 W Casino Rd  
Everett, WA 98204

P: 800-367-4568  
F: 425-407-1030  
orders@majesticglove.com

[majesticglove.com](http://majesticglove.com)