

Personal Protective Equipment

# Understanding Viral Penetration Properties in Disposable Gloves

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The extremely small size of viruses, bacteria and other microorganisms allows them to spread with ease. Viruses are present in every environment, exist solely to reproduce, and are considered the most abundant biological entity on earth.<sup>1</sup> And sometimes – as in the case of COVID-19 – they cause widespread, deadly disease.

## ASTM F 1671

In North America, gloves delivering virus protection must meet ASTM F 1671 standards. Testing for such gloves is similar to that of ISO 16603/16604. By employing a bacteriophage on one side of the testing chamber, the test measures whether microorganisms, including viruses, pass through the glove while under a specific amount of pressure over a period of time. Look for gloves marked “examination grade” to ensure it meets ASTM F 1671 standards.

Not all gloves deliver the same level of protection. At Ansell, their scientists engineer specialized polymer formulas and employ rigorous quality control measures to ensure that every glove they certify for virus and bacteria protection meets exceptional performance standards. As a leader in safety, they are dedicated to increasing awareness and understanding of potentially harmful – and lethal – microorganisms.

*Previously Featured on Ansell's Safety Briefing.*

<sup>1</sup> Medical News Today, “What to know about viruses,” May 30, 2017, <https://www.medicalnewstoday.com/articles/158179>