

Launch of U.S. standard evaluation test for medical protective clothing [isolation gown]

# Protect healthcare professionals from blood and body fluids of the infected

Nissenken Quality Evaluation Center (headquartered in Tokyo's Taito Ward, President: Nobuhiro Komada) has recently begun a global evaluation test based on U.S. standards for one of the medical supplies (Isolation Gown).



## Healthcare professionals who protect people and medical supplies that protect healthcare professionals

The global spread of the new coronavirus infection has renewed awareness of the importance of medical supplies. Every time the shocking news of "medical collapse" was reported, the shortage of high-performance masks and gowns worn by healthcare professionals has also been addressed. Medical supplies to protect people and their healthcare professionals.

## Barrier performance of isolation gowns effective in preventing secondary infection

Healthcare professionals are at constant risk for secondary infections caused by blood or body fluids in infected patients; therefore, the American Academy of Medical Instrumentation (AAMI) has established liquid protection performance standards for water, synthetic blood, bacteriophages, and other substances. This guarantees the barrier properties of protective clothing for medical use, which is incredibly useful in prevention of infection and in-hospital pandemics among healthcare professionals and it is a standard used globally. The WHO (World Health Organization) has clarifying views that collateral performance such as medical gowns “must have been tested with penetration resistance test against blood, body fluids or blood-borne pathogens.”

Reference : Liquid protection performance standards(AAMI)		
Level	Test method	Result
1	AATCC 42 Impact Penetration Test	≦ 4.5g
2	AATCC 42 Impact Penetration Test	≦ 1.0g
	AATCC 127 Hydrostatic Pressure Test	≧ 20cm
3	AATCC 42 Impact Penetration Test	≦ 1.0g
	AATCC 127 Hydrostatic Pressure Test	≧ 50cm
4	ASTM F1670 Penetration Test by Synthetic Blood	Pass
	ASTM F1671 Penetration Test by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration	

Nissenken are taking orders for two types of tests: AATCC 42 Impact Penetration Test and AATCC 127 Hydrostatic Pressure Test. The test is included in the “AAMI PB70” standard, which shows the barrier performance. We have received inquiries and requests for this test at our Tokyo laboratory. Please feel free to contact us. In addition, we would appreciate if you can tell us whether it is an AATCC or PB70-compliant test at the time of your request.

### TWO TYPES ARE "ISOLATION GOWN" AND "SURGICAL GOWN."WHAT IS THE DIFFERENCE?

ISOLATION GOWNS TAKE INTO ACCOUNT THE BARRIER OF THE ENTIRE GOWN AS WELL AS THE FRONT. ON THE OTHER HAND, SURGICAL GOWNS DIFFER IN BARRIER PROPERTIES BETWEEN THE FRONT AND THE BACK. EVEN IF THE FRONT SURFACE HAS EXCELLENT BARRIER PROPERTIES, IF THE BACK SURFACE HAS LOW BARRIER PROPERTIES, FOR EXAMPLE, IN THE CASE OF AAMI, IT IS CLASSIFIED AS HAVING LOW BARRIER PROPERTIES.

**For inquiries about this matter, please feel free to contact us ...**

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