

# Notice of New Evaluation Test to Protect Human Life from Flame

JIS T 8021 / ISO 9151 and JIS T 8022 / ISO 15025 compatible test machines are introduced.

## Evaluation tests to protect human lives from flames

Appropriate flame and fire protection performance are required for protective clothing to protect firefighters when a fire breaks out, and for all types of work to be worn by workers handling fire. We are pleased to inform you that Nissenken has recently begun a new evaluation test to protect human life.

## Installed testing machine that can be applied from protective clothing to disaster prevention goods

We introduced a testing machine to implement JIS T 8021 and JIS T 8022 in the table below, which was revised this year. It is a wide range of tests, ranging from protective clothing to protect against flame in firefighting activities on the ground and in handling special firefighters, to workwear for workers in routine firefighting environments. In addition, it can be applied to cases where higher flame resistance performance is required, such as general disaster prevention goods.

### JIS T 8021

**Protective clothing against heat and flame**  
- Method for measuring heat transfer index during flame exposure

※Compliance with ISO 9151

This is a test to measure the "resistance to heat transfer" of a material or composition of material. Measure the heat passing through the specimen and record the time at which the temperature rises to the specified temperature (e.g.,  $24 \pm 0.2$  °C).

#### Flame protection evaluation testing machine



☞ Evaluate the thermal insulation performance of materials. It is also used as a guide for "burn tolerance" that the human body can sustain when wearing it against flames.

### JIS T 8022

**Protective clothing against flame**  
- Flame Propagation Test Method

※Compliance with ISO 15025

Evaluate the "resistance to flame spread" of materials made of single or multiple layers of fabric (coating structure, quilting structure, sandwich structure, etc.) when exposed to flame.

#### Flammability testing machine for protective clothing



☞ Ignite and evaluate how the flame is spread, how long it is burning, changes in appearance, etc.

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

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