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SEKISUI KASEI CO., LTD. (Head Office: 2-4-4 Nishi-tenma, Kita-ku, Osaka, Japan; President: Yasunobu Furubayashi) has provided its high-performance gel material, ST-gel, to the “Motion Visualization Technology” project under the Moonshot R&D Program, promoted by Nagoya University, a member of the Tokai National Higher Education and Research System. The material was used to support motion capture and analysis during a performance of the traditional Nagashino Jindaiko drums, held at Expo 2025 Osaka, Kansai, on August 2, 2025.

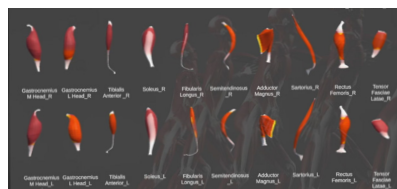
ST-gel contributes to Nagoya University's “Motion Visualization Technology” Project

—Supported Motion Analysis of the Nagashino Jindaiko Performance at Expo 2025 Osaka, Kansai—

1. Details

In this performance, the “Motion Visualization Technology” developed by Nagoya University enabled the real-time visualization of the performers' muscle movements. By integrating this technology with the 450-year-old drumming tradition of the Nagashino Jindaiko Preservation Group, the performance offered visitors a new and moving experience: seeing sound as motion.

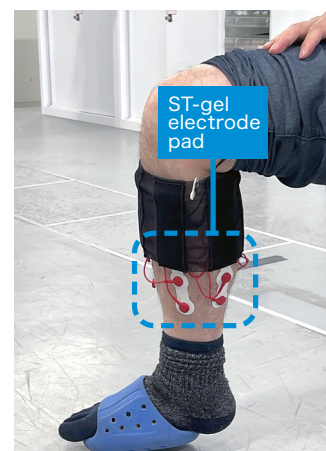
SEKISUI KASEI's ST-gel has been adopted as an important component of biological electrodes to support the stability and comfort of sensing devices worn on the body of the performer, and has helped analyze movements with high accuracy, contributing to the creation of new experience values through the integration of innovative technologies and traditional culture.



Real-time
visualization of
players' muscle
movements

2. Features

ST-gel is a high-performance gel material with excellent conductivity, retaining solvents and electrolytes such as water and moisturizers inside. It is widely used as an interface between the measuring area and the skin—for example, in electrocardiogram electrodes for medical use and low-frequency therapeutic pads for healthcare. It is also well-suited for prolonged sensing, physical activity, and use in highly humid environments. This collaboration with Nagoya University served as a meaningful demonstration of ST-gel's potential for real-world applications, particularly in the fields of healthcare and medical technology, and represents a significant step toward its social implementation.



3. Future Development

SEKISUI KASEI will address social issues and work to create value through the development and application of advanced materials to build a sustainable future society.