

Technical Information

## Visualizing Welding Conditions of Dissimilar Metals in Situ

## 1. Resistance welding of dissimilar materials

Utilizing joining technique for dissimilar materials is often required for cost reduction and higher functionality. We have developed a technology to visualize the welding conditions in process to improve the welding quality and productivity.



## 3. Visualizing examples and the evaluation

- 1) Molten SUS covering around the tungsten wire makes secure the welded joint.
- 2) The breaking strengths of the welded part compared to that of the original tungsten wire measured by a tension tester are 85% and 94 % for Φ100 µm of a tungsten solid wire and Φ60 µm of a tungsten twisted wire respectively.



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