FlexIr-TC

(Flexible iridium type thermocouple)

- Deformable Ir/Ir-Rh thermocouple
- Temperature measurement above 2000 deg C is possible



| Product Information

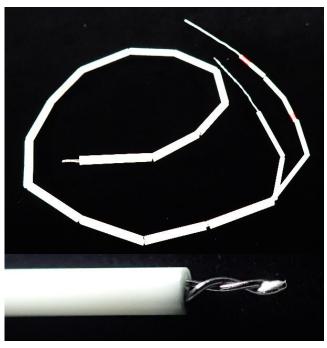


Fig.1: Photographs of the FlexIr-TC.

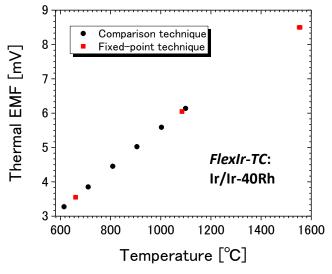


Fig.3: Thermal EMF characteristics of the FlexIr-TC.

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Outline

FlexIr-TC is the only Ir type thermocouple that can be repeatedly bent (Fig. 1). The FlexIr series wires which show outstanding deformability are used for the FlexIr-TC, and they can easily be a yarn (Fig. 2).

The thermal electromotive force (EMF) characteristics of the *FlexIr-TC* are shown in Fig. 3. *FlexIr-TC* shows good linearity at high temperature, and they can be used at more than 2000 degree.



Fig.2: The photograph of a yarn made by the *FlexIr*.

Specification (in case of the Ir/Ir-40Rh)

| Diameter | 0.5 mm |
|-------------|-------------------|
| Tolerance | At least ±0.02 mm |
| Length | ~1,000 cm |
| Atmosphere | Vacuum & Inert |
| Temperature | 0 ~ 2100 deg C |

Single Crystal Growth Service Consulting of crystalline business Scintillator crystals, arrays and scintillation detectors Piezoelectric crystals and piezoelectric devices