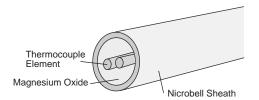
Nicrobell Sheathed Thermocouples

Nicrobell Sheathed Thermocouple

Wires of traditional metallic sheath (stainless steel, inconel, etc) is likely to receive chemical erosion or metallic fatigue under high temperature circumstance, and these give negative effects on their stability and longevity. Nicrobell Sheath is an epoch making heat resistant alloy and has chemical composition very close to that of the type N (Nicrosil) element, minimizing chemical erosion and metal fatigue.



Nicrobell Sheathed N Thermocouple

High Stability

Nicrobell sheath has chemical composition very close to that of the type N element and does not generate any metal gas in high temperature range different from conventional alloys such as stainless steel (SUS316, SUS310) and Inconel, thus prevents the element of type N thermocouple from contamination.

High Accuracy

Our Nicrobell sheath (N) thermocouple is class 1. It is capable of high temperature measurement with high accuracy compared with traditional sheath types.

Moreover, its high stability shows the same or higher realization with PL II (platinum II) and R around 1200°C.

Environmental Resistance

Nicrobell sheath (N) thermocouple has chemical composition very close to that of the type N element and does not generate any metal gas in high temperature range different from conventional alloys such as stainless steel (316SS, 310SS) and Inconel, thus prevents the element of type N thermocouple from contamination.



t : More than 10% of ϕD ϕd : More than 18% of ϕD

a . More than 1070 or q

Long Life

Nicrobell sheath (N) thermocouple, which has high stability and environmental resistance, has a longer cycle of periodic replacement and economical for it will less change over the time and has a long life span compared with traditional sheathes.

Nicrobell Sheathed K Thermocouple

Because Nicrobell sheath is a nickel based alloy as K type, it minimizes corrosion by metallic gas expansion to its wires under high temperature range, and improves stability, environmental resistance, and thermal resistance of its thermoelectromotive force.

Low Cost

Nicrobell K thermocouple realizes high stability and environmental resistance with almost same price with traditional Inconel sheath. Progress of basic function results in low cost due to long-term use by stabilizing accuracy of thermoelectromotive force in long-term and by extending periodic replacement by reinforcing K type strength (thermal resistance) in high temperature range.

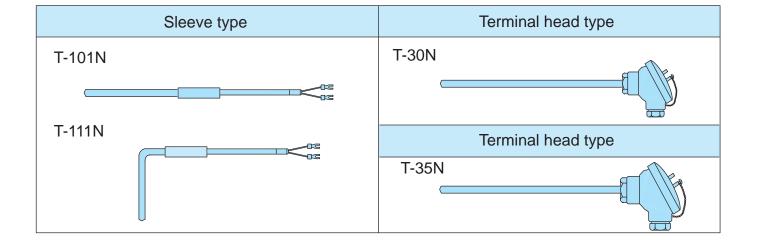
Improved Reliability

Traditionally, when talking about environmental resistance for selection of thermocouple metallic sheath, people were likely to more focus on its materials and did not pay much attention on relationship between its materials and wire.

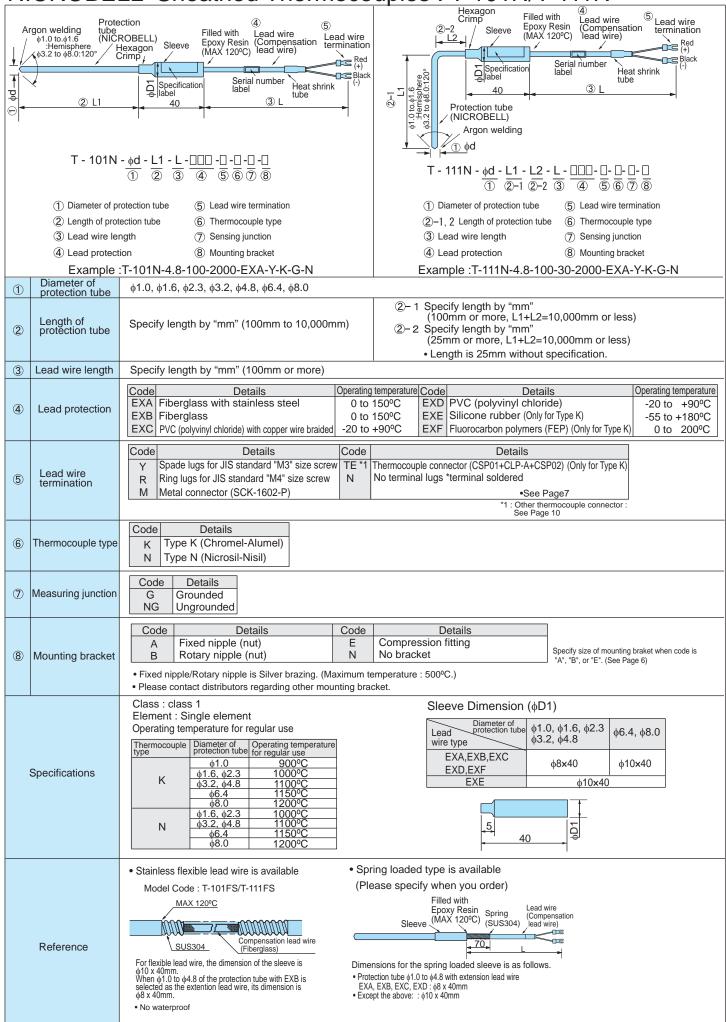
Nicrobell sheath is a new created metallic sheath balancing its traditional matter, thus its accountability will be highly progressed

Long Life

Nicrobell sheath K type thermocouple can be used for long duration of time in a high temperature range by the difference of performance and traditional thick wire.



NICROBELL Sheathed Thermocouples: T-101N/T-111N



NICROBELL Sheathed Thermocouples: T-30N/T-35N

