

HIGH TEMPERATURE MINERAL INSULATED THERMOCOUPLE CABLE

DESCRIPTION

SUPERCUPLE 1000 is a new type of mineral insulated thermocouple cable with fine outer diameter high temperature durability even in fine outer diameter and high temperature durability.

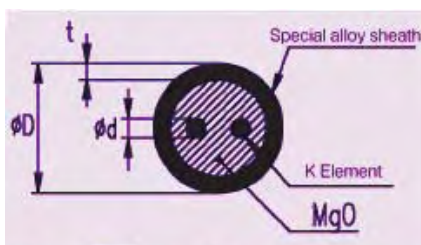
A nickel based special alloy has been used as sheath materials which is used to achieve better efficiency than usual fine diameter mineral insulated thermocouple cable in high temperature oxidizing and reducing atmosphere at over 5000°C. It is very suitable for high temperature applications where quick response is required, due to its fine sheath diameter. It can easily cope up with high temperatures

FEATURES

- (1) Though 500°C to 650°C was a limit, SUPER COUPLE 1000 has the durability which exceeds this in usual extreme diameter of metal sheathed thermocouple.
- (2) A product beyond the outside diameter 3.2 became possible (it can be used under high temperature (MAX. 1000-1200°C), too.
- (3) It can be applied to the reduction atmosphere as well as atmosphere contains hydrogen (H₂).
- (4) The nickel based special alloy (It is equivalent of HOSKINS 2300) is used for the sheath quality of the material, and this alloy is responsible for the durability increased of thermocouple.

SPECIFICATION

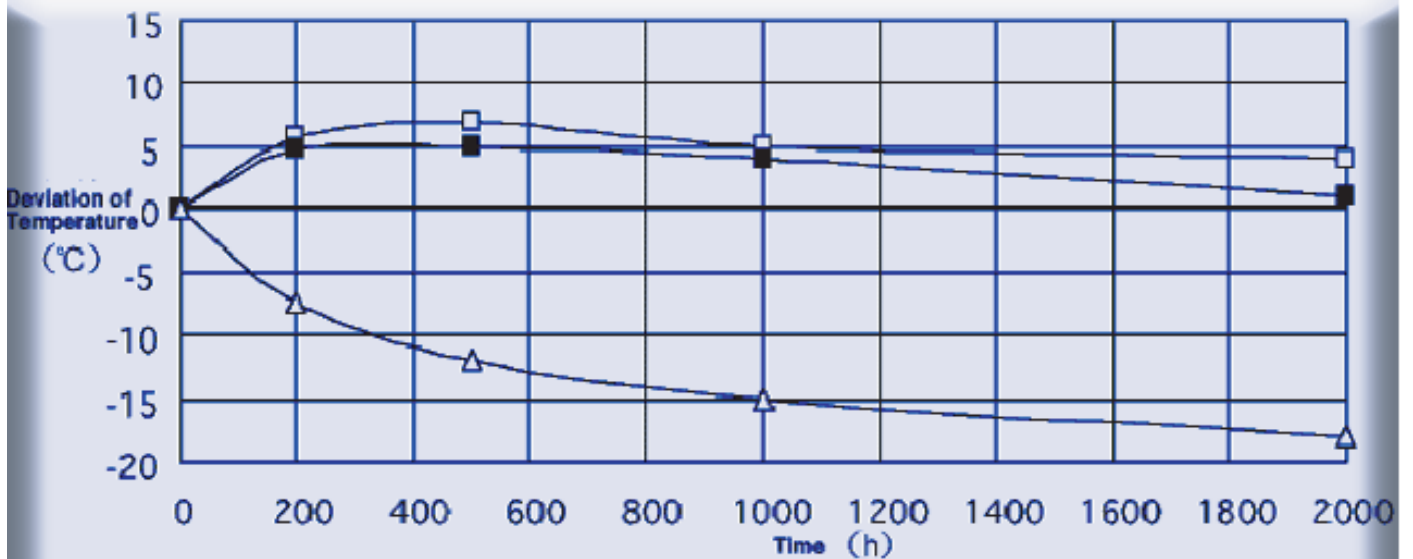
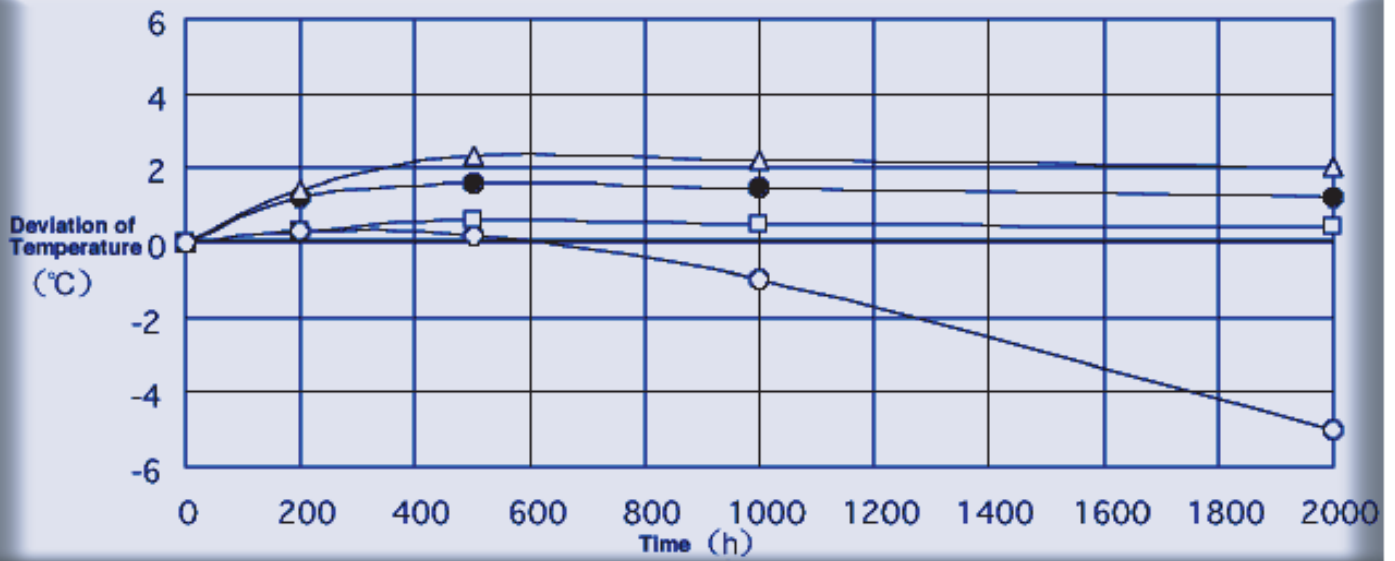
Sheath O.D. (mm)		0.25	0.5	1.0	1.6	3.2	4.8	6.5	8.0
Min. Element O.D. (mm)		0.05	0.1	0.17	0.27	0.51	0.76	1.0	1.3
Min. Sheath Thickness (mm)		0.035	0.08	0.17	0.7	0.27	0.47	0.72	1.16
Maximum Operating Temperature	SUPER COUPLE 1000	700	900	900	900	1000	1100	1200	1200
	Inconel *1	500	600	650	650	750	900	1000	1050
	Stainless Steel	---	---	650	650	750	800	800	900
Type of Element		K							
Number of Element		Single							
Tolerance		Class 1 or 2 (According to JIS C1605-'95)							



Single



Double



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