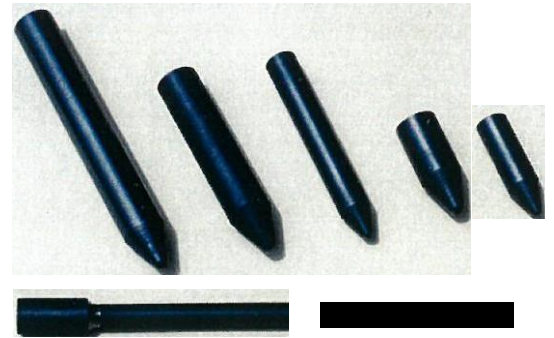


KJ level sensor for molten aluminum

The material of the KJ level sensor for molten aluminum is a carbon-ceramic composite material, which takes advantage of the characteristics of graphite and dramatically improves its characteristics by incorporating ceramics into the composite.

The KJ level sensor is used by many companies and has been well received due to its ability to drain molten aluminum and its durability.



[Features of KJ level sensor]

- Does not react with aluminum

There is no reaction between iron and aluminum, and no impurities are mixed in.

- Aluminum is difficult to adhere to.

The hot water drains easily and the molten aluminum level can be controlled reliably.

- conduct electricity

It has conductive properties comparable to graphite.

- Very little high temperature oxidation

Can be used for long periods in the atmosphere.

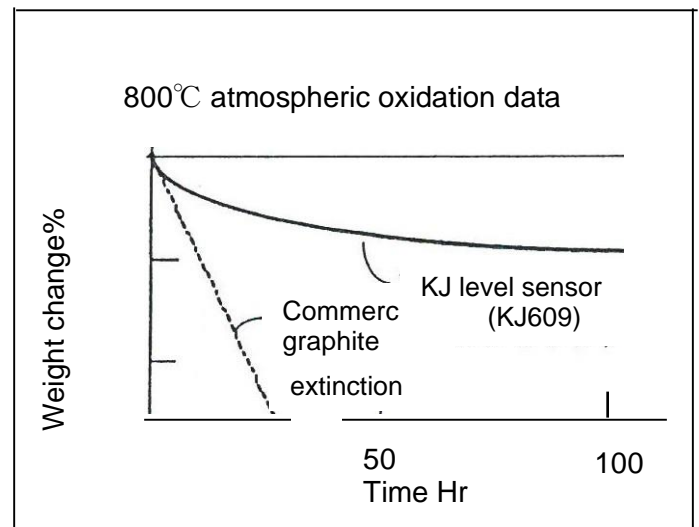
- Can be processed into any shape according to your request

[Application example]

- Sensor to die casting machine molten aluminum supply ladle
- Level sensor for molten aluminum robot ladle
- Melting furnace, holding furnace molten aluminum level sensor
- Low pressure casting furnace molten aluminum level sensor
- Molten aluminum level sensor for signal of automatic molten aluminum heater

[Other uses]

- Thermocouple protection tube
- Melting crucible
- Stopper
- Rotary degasser shaft and impeller
- Can be used as high temperature molten metal parts such as riser tubes and posts of metal pumps, impellers, etc.



[Physical property values]

Characteristic	KJ609	Commercial graphite
Apparent specific gravity(g/cm ²)	2.09	1.77
bending strength(Kgf/cm ²)	900	500
Hardness(Hs)	35	54
Water absorption rate(%)	3.00	6.80
electrical resistivity($\mu \Omega$ cm)	1000	1100
Thermal conductivity(cal cm · °C / sec)	0.27	0.15