

Corundum pyrogenic ceramic



1. Protector pipe series

Material: Corundum

Use: Protector tube and temperature tube of thermocouple thermometer, carbon determinator, sulfur determinator and combustion pipe of metallurgy, iron and steel, chemical analysis.

Feature: Great mechanical strength, good thermal conductivity, great resistance to heat impact, high softening temperature, good insulation and high-frequency characteristics under high temperature and resistance to chemical corrosion.

2. Insulation pipe series

Material: Corundum

Use: For thermocouple, interval and insulation between couple wires. For specifications, there are single hole, double holes, four holes and multi-holes. For form, there are round and oval pipes.

Features: Great mechanical strength, good resistance to thermal impact, good insulation and high-frequency characteristics under high temperature. Breakdown voltage and volume resistance and self-reactance are great and thermal expansion coefficient is small.

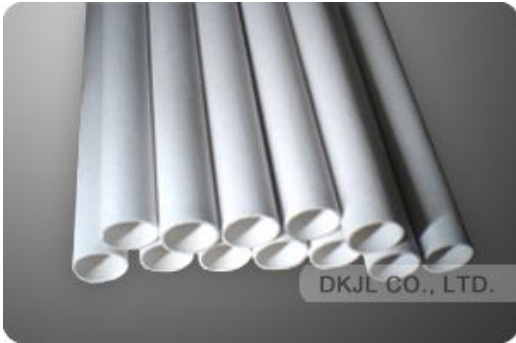
3. Through pipe series

Material: Corundum

Use: Inner liner tube and heating tube in electric furnace, heat treatment furnace and toughened furnace, chlorine pipe for production of alchlor and electric heating pipe in the tin trough in the production line of float glass.

Features: Great mechanical strength, good resistance to thermal impact, high softening temperature, good chill and abrupt heat properties, small thermal expansion coefficient and resistance to acid and alkali corrosion.

High alumina pyrogenic ceramic



1. Protector pipe series

Material: High alumina

Use: Protector tube and temperature tube of thermocouple thermometer, carbon determinator, sulfur determinator and combustion pipe of metallurgy, iron and steel, chemical analysis

Feature: Great mechanical strength, good thermal conductivity, great resistance to heat impact, high softening temperature, good insulation and high-frequency characteristics under high temperature and resistance to chemical corrosion.

2. Insulation pipe series

Material: High alumina

Use: For thermocouple, interval and insulation between couple wires. For specifications, there are single hole, double holes, four holes and multi-holes. For form, there are round and oval pipes.

Features: Great mechanical strength, good resistance to thermal impact, good insulation and high-frequency characteristics under high temperature. Breakdown voltage and volume resistance and self-reactance are great and thermal expansion coefficient is small.

3. Through pipe series

Material: High alumina

Use: Inner liner tube and heating tube in electric furnace, heat treatment furnace and toughened furnace, chlorine pipe for production of alchlor and electric heating pipe in the tin trough in the production line of float glass.

Features: Great mechanical strength, good resistance to thermal impact, high softening temperature, good chill and abrupt heat properties, small thermal expansion coefficient and resistance to acid and alkali corrosion.

Chief technical parameters

Chemical competent	Al ₂ O ₃	≥85%
	SiO ₂	<12%
	Fe ₂ O ₃	<0.5%
Alkaline matter		<2.5%
Density		2.6 g/cm ³
Hardness		7 M
Water absorption		<0.2%
Rupture strength		>1300kg/cm ²
Gas tightness		Kept for ten minutes at negative pressure of 1.3Kpa. The pressure drop is less than 0.3Kpa.
Heat tolerance		Insert the pipe into the furnace at a depth of 20mm. Heat to 1600°C and maintain for 30 minutes.
Alkali tolerance		In the Na ₂ CO ₃ solution of 2N concentration, boil for 15 hours with the weight loss not greater than 20mg/dm ² .
Volume resistance		>2*10 ⁽⁵⁾ Ω·cm/1300°C
Breakdown voltage		18kv/cm
Expansion coefficient		5*10 ⁽⁻⁸⁾
Temperature for use		Long-term: 1400°C Short-term: 1600°C
Chill and abrupt heat		1300°C~room temperature not cracking thrice.