Protection Pipe and Insulating Pipe of Alumina (Al₂O₃)

Features

- · High Mechanical Strength
- · High Thermal Conductivity
- · High Spalling Resistance
- · High Softening Temperature
- · Excellent Insulativity
- · Etching Resistance

Application

- · Temperature Measuring Meters
- · Protection and Insulation for Thermocouples, Thermometers
- · Furnace Tube for Resistance Furnaces, Heat Treatment Furnaces
- · Chemical Analysis for Steel, Iron
- · Various Insulating Parts for High Temperature Resistance and Etching Resistance

Characteristics of Material

	Itom	Unit	Val		
Item		WWW.	High Alumina	Corundum	
Al ₂ O ₃ Content	ADER COLL	%	85	99~99.5	
SiO ₂ Content	- recillion	%	12	0.2	
Fe ₂ O ₃ Content		%	0.2	0.05~0.1	
Mohs Hardness			7 WWY	8~9	
Bulk Density	Injection molding	g/cm ³	3.5~3.6	3.7~3.9	
	Extrusion molding		3.4~3.5	3.7~3.8	
	Hot-press molding	0	3.4~3.5	3.7~3.85	
Water Absorption		%	< 0.2	0.1~0.2	
Bending Strength	Injection molding	MPa	180	200	
	Hot-press molding		140	150	
Operating Temperature		° ,,,,,	Long term 1450 Short term 1600	Long term1600	
Max. Operating Temperature		°C	1600	1800	

Dimensions of Insulating Pipes of High Alumina and Corundum Ceramic

Unit: mm

** 1. \$1	Value					
Hole Nos	O.D	I.D	Length			
Mono-hole	1~15	0.5~10	5~1000			
Double-hole	2~15	0.5~4	5~2000			
Flat double-hole	3×5~7×12	0.5~5	5~200			
Four-hole	4~15	0.5~4	5~2000			

Dimensions of Ceramic Protection Pipes for Thermocouples

Structure Model

· Mono-hole, Double-hole, Multi-hole

· Round, Oval

· Rhombohedral

Threaded

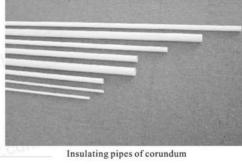
Unit: mm

Item	Value							
O.D	6	8	10	12	16	20	25	
I.D	4	6	7	8	12	15	19	
Length	100~2165							

Products of other specifications can be produced according na-rectifier.com to customers' requirements.



Insulating pipes of high alumina





Insulating pipes of corundum



Multi-holes protection pipes