

Zeolite For PVC Heat Stabilizer

Product Overview

This product is a well-crystallized, free-flowing powder product with optimized particle size. It can be used as a formula component of PVC heat stabilizer and used in the formula system of rigid PVC and soft PVC. It can replace lead-containing stabilizers, improve the long-term thermal stability and anti-discoloration ability of PVC, and has better environmental friendliness and environmentally friendly flame retardant effects. It complies with the control requirements of EU ROHS and REACH regulations on hazardous substances. It can replace stabilizers such as zinc stearate and methyl tin mercaptan in proportion according to application performance requirements, while maintaining thermal stability, significantly reducing the cost of PVC heat stabilizers.

Mechanism of action

The main component of Z-PVC special zeolite is active aluminosilicate. The alkaline genes attached to its surface can quickly neutralize part of the HCL produced by PVC degradation and slow down the decomposition of PVC structure.

Mechanism of action

The unique pore structure of active aluminosilicate can effectively bind the HCL produced by degradation, thereby reducing the HCL concentration, cutting off the self-catalytic reaction process, improving the thermal stability of PVC, and having the thermal stability characteristics of a long-term main heat stabilizer.

The combination of active aluminosilicate and zinc stearate/tin heat stabilizer has a unique synergistic effect.

Z-PVC special zeolite loses water (attached water, crystallization water) when heated, which can not only take away part of the heat, but also dilute the combustible gas to play a good flame retardant role.

Product Characteristic Index

Product Model		Z-4A-PVC	Z-4A-PVC-B
Calcium exchange capacity (mg)($\geq$)		295	285
Particle size distribution	D50 (μm)	2-4	2-4
	D10 (μm)($\geq$)	1	1
	D90 (μm)($\leq$)	10	10
325 Screening material (wet screen)(%)($\leq$)		0.5	0.8
Whiteness (W=Y10)(%)($\geq$)		96	96
PH value (1%, 25°C)		11-12	11-12
Ignition loss (800°C, 1h)(%)($\leq$)		22	22
Al 3+ (Dry basis)($\geq$)		18	18
Black spots (pieces/50g)($\leq$)		12	30

4A Zeolite For Washing Auxiliaries

Product Overview

This product is a non-toxic, odorless, and fluid white powder with strong calcium ion exchange capacity and efficiency. It is the most ideal phosphorus-free additive to replace STPP. It has good liquid carrying capacity and excellent compounding performance with surfactants, which is conducive to the molding of powder detergents and maintains long-term fluidity. It can be used in the production of super-concentrated washing powder and agglomeration granulation process; it is also widely used in transparent soap, whitening soap and other washing products.

Main Uses of The Product

Ordinary laundry detergent , Transparent soap, whitening soap
Super concentrated laundry detergent , Paint

Product Characteristic Index

Product Model	Calcium exchange capacity (mg)(≥)	Calcium exchange rate (mg CaCO ₃ /g)		Particle size distribution			325 Screening material (wet screen) (%) (≤)	Whiteness (W=Y10) (%) (≥)	PH value (1%, 25°C) (≤)	Ignition loss (800°C, 1h) (%) (≤)	Al ³⁺ (Dry basis) (≥)
		2 minutes (≥)	10 minutes (≥)	D50 (μm)	D10 (μm) (≥)	D90 (μm) (≤)					
Z-4A	295	175	190	2-4	1	10	2	96	11.2	22	18

Refractories



High Temperature Mullite Insulating Bricks

Product Overview

High temperature mullite insulating brick is a new technology introduced in China, the latest energy-saving refractory materials in China, with high temperature resistance, high strength, small thermal conductivity, significant energy-saving effect and other characteristics, suitable for petroleum cracking furnace, metallurgical hot blast furnace, ceramic roller kiln, tunnel kiln, electric porcelain drawer kiln, glass crucible kiln and a variety of electric furnace lining, can be in direct contact with the flame, tested and used by the relevant technical supervision departments, the product reaches the technical indicators of similar foreign products.

Technical Parameters	Material		
	HTM23	HTM26	HTM28
1) Classification temperature [refer to the conditions of use] (CT °C)	1260	1430	1540
2) Bulk weight [Kg/m ³]	780	780	880
3) Cold compressive strength according to ASTM C93 (MPa)	1.3	1.6	2.1
4) The deformation of heat charge strength [%] is 0.034MPa	1100°C 0.1		
5) The deformation of heat charge strength [%] is 0.07MPa		1260°C 0.2	1320°C 0.2
6) Refever change [%] CT-30 °C × 24 h	0.2	0.2	0.2
7) Reversible thermal expansion 1100°C [%]	0.5	0.7	0.8
8) AL ₂ O ₃	37.0	58.0	67.1
9) FeO ₂	1.2	1.0	0.8
a) Thermal conductivity [w/mk] at 600°C according to ASTM C 182	0.16		
b) Thermal conductivity [w/mk] at 800°C according to ASTM C 182	0.18	0.31	0.36
c) Thermal conductivity [w/mk] at 1000°C according to ASTM C 182	0.20	0.33	0.38
d) Thermal conductivity [w/mk] at 1200°C according to ASTM C 182		0.35	0.41
Remarks: Appearance acceptance according to GB-3995-83 [high alumina heat insulation brick]			

Ceramic Roller

Product Overview

Ceramic roller is a modern type of high-temperature roller kiln essential key components, it is in the high-temperature firing in the role of bearing transmission transmission products. Ceramic roller is used Al₂O₃ as the main raw material to be processed, add with other high-quality auxiliary materials, molding and specially designed high-temperature kiln calcined by advanced special equipment, and then precision machining, the product of the technical performance of the rigorous testing, fully in line with the use of roller kiln requirements.

Product Parameters

Performances	Projects	Model		
		HT90	HT96	HT98
Physical Property	Density (g/cm ³)	≥2.4	≥2.6	≥2.8
	Apparent stomatal rate (% apparent stomatal rate)	20-25	15-20	10-15
	Water absorption (%)	8-12	7-10	4-7
	Bending strength(25°C/1350°C,MPa)	>50/30	>60/40	>70/50
	Coefficient of thermal expansion (×10 ⁻⁶ /°C) (25-1000°C)	5.8-6.2	5.8-6.2	5.8-6.2
	Resistance to rapid cooling and heating (1300-25°C)	Excellent		
	Working temperature (°C)	≤1200	≤1300	≤1350

Product Parameters

Performances	Projects	Model		
		HT90	HT96	HT98
Main chemical composition	Al ₂ O ₃	74%-76%	72%-74%	78%-80%
	SiO ₂	20%-26%	19%-21%	14%-16%
	Fe ₂ O ₃	≤0.3%	≤0.3%	≤0.2%
Exterior Dimensions	Diameter tolerance (mm)	ΦD+0.3		
	Length Tolerance(mm)	± 3.0		
	Straightness(mm)	≤0.07%.L		
	Roundness(mm)	≤0.5		

Product Parameters

Performances	Projects	Model		
		HT90	HT96	HT98
Areas of application	Glazed brick	√	√	√
	Colored glazed tiles	√	√	√
	Porcelain Tile	√	√	√
	Daily use ceramics		√	√
	Magnetic material			√
	Electronic ceramics			
	Microcrystalline glass		√	
Specification	Diameter Φ21-60mm, length ≤4800mm			