

氧化镁膨胀剂

Magnesium oxide expansion agent

完全满足CBMF 19-2017 《混凝土用氧化镁膨胀剂》

Fully satisfy CBF 19-2017 Magnesium Oxide
Expansion Agent for Concrete



Provider of comprehensive solutions for
concrete disease control

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MgO expansion agent products to concrete crack control as the main theme, in consideration of different building structures, construction conditions, different age of the contraction of the basis, follow the principle of compensating for contraction, combined with the light burned magnesium oxide activity can be adjusted performance characteristics of the scientific design of the expansion characteristics of the product, so that the release of the expansion energy and the expansion of the play of time and the contraction of the concrete structure to match, so that the concrete has a good anti-cracking and anti-seepage properties. performance.

Scope of application

- ◆ Underground buildings: underground parking lot, underground human defense, underground warehouse, underground sidewalk, foundation pit, pile foundation and other projects.
- ◆ Waterproof structures: reservoir dams, subways, tunnels, water conservancy and hydropower, marine engineering, ports, water plants, power plants, pools and other projects.
- ◆ Extra-long concrete structure: airport terminal, large square, stadium, theater, plant and other projects.



Performance metrics

Fully satisfy CBMF 19-2017 Magnesium Oxide Expansion Agent for Concrete

Test item		Indicator Requirements		
		Type R	Type M	Type S
MgO content (%)		≥	80.0	
Loss on burnout (%)		≤	4.0	
Moisture content/%			0.3	
Reaction time (s)		< 100	≥100且 < 200	≥200且 < 300
Fineness (%)	80 μm square hole sieve		5.0	
	1.18 mm square hole sieve		0.5	
Restriction on expansion (%)	20℃水中7d	≥	0.020	0.015
	20℃水中, Δε	≥	0.020	0.015
	40℃水中7d	≥	0.040	0.030
	40℃水中, Δε	≥	0.020	0.030
Setting time (min)	Initial coagulation	≥	45	
	Final coagulation	≤	600	
Compressive strength (MPa)	7d	≥	22.5	
	28d	≥	42.5	

◆ Δε Indicates the difference between the limiting expansion rate of 28d of conservation and the limiting expansion rate of 7d of conservation.

Precautions

The dosage and activity of MgO expansion agent should be determined according to the actual demand of the project, and it is recommended that the dosage should not be more than 8% of the total amount of rubber material, R-type is preferred for winter construction, M-type is preferred for summer construction, and M-type or S-type MgO expansion agent is preferred for large-volume concrete.

Packaging and storage

Packed in composite bag, net weight 25kg/bag, shelf life 3 months; need to be stored in a dry and ventilated room, the bag is sealed, pay attention to moisture-proof, anti-freezing.