

# 钙镁复合膨胀剂

Calcium magnesium composite  
expansion agent

完全满足T/CECS 10082-2020《混凝土用钙  
镁膨胀剂》



Provider of comprehensive solutions for  
concrete disease control

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Calcium-magnesium composite expansion agent is based on the actual temperature and contraction course of concrete, the use of specially formulated calcium expansion components to produce early expansion to compensate for early self-shrinkage and produce pre-compressive stress under the constraint conditions, and the specific activity of magnesium expansion components to compensate for the temperature drop contraction and late contraction, to realize the concrete shrinkage inhibition in phases and in the whole process to achieve the purpose of non-shrinkage, which reduces the risk of cracking of the concrete and improves the The durability of concrete is improved.

Scope of application

This product is suitable for the thickness of 2500mm or more large volume, large area and ultra-long structure of concrete projects, such as tunnels, marine engineering, ports, reservoirs, dams, subway and other waterproof structures, airport terminals, stadiums and other ultra-long concrete structures. Basement and other underground projects, water conservancy and hydropower.



Performance metrics

Test item	Indicator Requirements		
	Type I	Type II	
Fineness	比表面积/（m <sup>2</sup> /kg）	≥250	
	1.18mm方孔筛筛余/%	≤0.5	
Moisture content/%		≤1.0	
Setting time(min)	初凝	≥45	
	终凝	≤600	
Restriction of expansion(%)	20℃水中7d	≥0.035	≥0.050
	20℃空气中21d	≥-0.010	≥0.000
	Δε	≥0.015, ≤0.060	
Compressive strength(MPa)	7d	≥22.5	
	28d	≥42.5	

Precautions

1. The concrete using this product should be designed and constructed in accordance with GB50119-2013 Specification for Concrete Admixtures and IGI/T178-2009 Technical Specification for Application of Compensatory Shrinkage Concrete.
2. The dosage of calcium-magnesium composite expansion agent should be adapted according to the actual demand of the project, and it is recommended that the dosage should not be more than 10% of the total amount of rubber material.

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.