



High-Efficiency Water-Reducing Agent

Product Introduction

Jingxin's new high-efficiency water-reducing agent is a premium additive, independently developed and manufactured to meet the processing and performance requirements of monolithic refractory materials and precast refractory shapes. It is formulated with polycarboxylate-based organic materials and manufactured using a proprietary production process.

When applied, the product exhibits superior water reduction, high dispersibility, rapid wetting, and optimized rheological behavior for enhanced flowability and workability. It integrates quickly and uniformly into the refractory matrix, significantly enhancing placement properties, self-flowability, and overall material performance.

This high-efficiency water-reducing agent offers excellent versatility and compatibility with a wide range of refractory compositions and binder systems. It is extensively applied in advanced monolithic refractories and precast components based on corundum, corundum-spinel, chrome-corundum, and alumina-magnesia systems. Typical applications include ladle purging plugs, seating blocks, ladle nozzle well blocks, repair materials for seating blocks, castable refractories for ladles, precast ladle shapes, castable refractories for RH snorkels, and RH snorkel self-flowing refractories.

Performance Characteristics&Application Recommendations

Item	JH1	JC1
Type	General-purpose type	Accelerating type
Performance Characteristics	<ul style="list-style-type: none">• High water reduction rate• Rapid wetting• High fluidity	<ul style="list-style-type: none">• High water reduction rate• Rapid wetting• Short demolding time
Application	No silica fume or silica fume content less than 1%.	
Mixing Ratio	0.3-0.8%	0.3-0.8%
Combined Use	Based on seasonal conditions, construction environment temperature, and product performance differences, the general-purpose and accelerating types can be used in combination, with a total dosage maintained at 0.3-0.8%.	

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Jiangsu Jingxin New Materials Co.,Ltd.

Water Reducer Dosage	Water Addition	Flow Value	Initial Setting Time
0.5% JH1	4.2%	150mm	90min
0.5% JC1	4.4%	140mm	30min
0.4%JH1 + 0.1%JC1	4.3%	145mm	60min

The above data are typical values from the Jiangsu Jingxin's laboratory, measured at 25°C room temperature and 60% humidity. Actual usage should be tested before application.

Technical Data

Chemical Compositions	JH1	JC1
Al ₂ O ₃	≥ 78 (80)	≥ 78 (82)
SiO ₂	≤ 0.10 (0.05)	≤ 0.10 (0.06)
Fe ₂ O ₃	≤ 0.10 (0.03)	≤ 0.10 (0.03)
Na ₂ O	≤ 1.0 (0.5)	≤ 1.0 (0.6)
Moisture	≤ 3.0 (0.5)	≤ 3.0 (0.4)

Other Data

Parameter	Value
Packaging	25kg per bag.
Storage & Transportation	Store indoors, prevent moisture and compression, avoid agglomeration. Minor pseudo-agglomeration does not affect use.
Shelf Life	12 months from the production date.
Safety Data	White powder, non-toxic, non-irritating, non-flammable.

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