MICROFINE CEMENT – K1000 (D50 5.1µm)

DESCRIPTION

MICROFINE CEMENT – K1000 (D50 5.1µm) is an ultra-fine cement developed for high-performance grouting and injection applications requiring exceptional penetration into microfissures and low-permeability ground conditions. Its extremely fine particle size distribution provides excellent grout stability, high strength development, and superior penetration capability.

KEY FEATURES

- Ultra-fine particle size for superior penetration performance
- High compressive strength development
- Excellent fluidity and suspension characteristics
- Low bleeding and stable grout performance
- Designed for microcrack and low-permeability injection systems

APPLICATIONS

- Ground stabilisation
- Tunnel and mining grouting
- Rock and soil injection
- Microcrack concrete injection
- Civil engineering grouts
- Dam remediation and seepage control
- Waterproofing and permeation grouting

CHEMPORT
Specialty Chemical Experts

LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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Users are solely responsible for determining the suitability of this product for their specific application and for ensuring compliance with all relevant regulations, industry standards, and intellectual property rights. The product must not be used in violation of any law, statute, or third-party rights.

Chemport Pty Ltd shall not be liable for any direct, indirect, or consequential loss or damage arising from the use of this product or reliance on the information provided in this document. Users should refer to the current Safety Data Sheet (SDS) and perform their own evaluations, including any necessary testing, to confirm the product's suitability for use in their particular conditions.

This document is subject to revision without notice as new data becomes available.

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TYPICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Appearance	Grey powder
Odour	None
Moisture Content, %	0.5
Density, g/cm³	3.01
D50 Particle Size, µm	5.1
D90 Particle Size, µm	11.97
Initial Set Time, min	190
Final Set Time, min	245
Compressive Strength (3 Day), MPa	44.2
Compressive Strength (28 Day), MPa	81.5
Flexural Strength (3 Day), MPa	7.3
Flexural Strength (28 Day), MPa	9.8
Fluidity, %	205
Chloride Content, %	0.03
Loss on Ignition, %	1.8
Water Soluble Chromium (VI), mg/kg	1.4
Sulfate Content, %	0.5

PACKAGING
25 kg bags and bulk packaging available upon request

STORAGE & HANDLING
Store in a cool, dry environment away from moisture and humidity. Keep packaging sealed when not in use. Shelf life may vary depending on storage conditions.

SAFETY
Refer to the Safety Data Sheet (SDS) for detailed safety, handling, and regulatory information. Appropriate PPE should be worn when handling cementitious materials.