

CG212



SUMMARY

- CG212 fluid loss additive is a synthetic polymer which is capable of effectively reducing water loss filtering from the slurry to porous formation during cementing process.
- Specially designed for lightweight cement slurry system (1.2-1.6g/cm³) and normal density cement slurry with strong dispersity.
- Generate thickening effect on cement slurry, enhance its suspension stability and prevent sedimentation.
- The lightweight cement slurries applied with FLA CG212 products exhibit good thickening performance.
- Fast compressive strength development of set cement.
- Used below temperature of 180 °C (356 °F, BHCT).
- Applicable mixing water: from fresh water to salt-saturated water.
- Compatible with other additives.
- CG212 series consists of L-type liquid, L-A type anti-freezing liquid, S-P type high purity powder, S-D type dry-mixed powder and S-T type dual-use powder.

PHYSICAL AND CHEMICAL INDICATORS

Type	Appearance	Density, g/cm ³	Water-Solubility
CG212L	Colorless or faint yellow liquid	1.10 ± 0.05	Soluble
CG212L-A	Colorless or faint yellow liquid	1.15 ± 0.05	Soluble

Type	Appearance	Bulk Density, g/cm ³	Water-Solubility	0.315mm Residues, %
CG212S-P	White or faint yellow powder	0.70±0.20	Soluble	<15
CG212S-D	Grey powder	0.90±0.10	Partly soluble	<15
CG212S-T	White or faint yellow powder	0.90±0.10	Soluble	<15

RECOMMENDED DOSAGE

Type	CG212L(-A)	CG212S-P	CG212S-D	CG212S-T
Dosage range in the lightweight cement slurry (By Weight of Blend)	4.0-8.0%	1.5-3.0%	2.5-6.0%	2.5-6.0%
Dosage range in the cement slurry with strong dispersity (BWOC)	3.0-8.0%	0.6-2.5%	1.5-5.0%	1.5-5.0%

CEMENT SLURRY PERFORMANCE

Item		Test Condition	Technical Indicator	
Density of the lightweight cement slurry, g/cm ³		25 °C, Atmospheric Pressure	1.35±0.01	
Density of Dyckerhoff cement slurry with strong dispersity, g/cm ³			1.85±0.01	
Fluid loss, ml	Fresh water system	80 °C, 6.9MPa	≤80	
	18% salt water system	120 °C, 6.9MPa	≤150	
Thickening performance	Initial consistency, Bc	80 °C/45min, 46.5MPa	≤30	
	40-100 Bc thickening time, min		≤40	
Rheological performance	Cement slurry with strong dispersity	80 °C, Atmospheric Pressure	Plastic viscosity(PV), cPs	≤150
			Yield point(YP), Pa	15-30
	Lightweight cement slurry		Plastic viscosity(PV), cPs	≤100
			Yield point(YP), Pa	5-20
Free fluid, %		80 °C, Atmospheric Pressure	≤1.4	
24h compressive	Lightweight cement slurry	Pressure	≥5	

STANDARD PACKAGING AND STORAGE

- The liquid type products should be used within 12 months after production. Packed in 25kg, 200L and 5 US gallon plastic barrels.
- S-P/D type powder products should be used within 24 months and S-T type powder product should be used within 18 months after production. Packed in 20kg bag.
- Customized packages are also available.
- Once expired, it shall be tested before use.