

AlbaCem

White Composite Cement

CEM II/B-M 52.5 N as per BSEN 197-1 : 2011 & ASTM C 1157-10 Type GU

Introduction:

NCF's introducing its White Composite Cement as AlbaCem. It is a Green product category with high-quality, cost-effective building material for Architectural purposes. It is produced by inter-grinding of selective quality of White clinker and Gypsum with small portions of SCMs.

NCF is the first plant where developed, manufactured and introduced the White Composite Cement in UAE market. Its continuous efforts in R&D made the product with Superior Quality.

AlbaCem is suitable for all applications where classical white cement has been used.

NCF's AlbaCem surpasses all Chemical & Physical requirements of CEM II B-M 52.5N as per BS EN 197-1:2011 & ASTM C 1157-10 TYPE GU Standards.

Applications:

- Architectural and Aesthetic projects specially GRC (Glass fiber Reinforced Concrete).
- White pre-cast concrete for Urban furniture (Street & Garden furniture).
- Internal & External Floorings.
- Manufacturing of White or Colored Mortars used in facades of houses and buildings.
- Construction of Swimming pools.
- Terrazzo and Mosaic Tiles.
- Grouts & Premix plaster (Mortars).
- White cement based Wall coats and Paints.
- Artificial stones.

Benefits of AlbaCem:

- Low pH compare to classical White cement, this made it suitable to use in GRC structural's.
- Better workability over classical White cement.
- Higher fineness than classical White cement - better finishing and avoid blow holes in GRC and Art stone applications.
- Superior whiteness made it suitable for all kinds of pigments.
- Green product, generate less carbon foot print.



NCF AlbaCem typical test values against the International standard requirements

Parameters		Units	Standard Requirements		Typical analysis as per CEM II/ B-M BS EN 197-1
			CEM II/B-M 52.5 N as per BSEN 197-1	ASTM C 1157 Type GU	
Loss On Ignition	LOI	%	--	--	5.50 - 7.50
Silicon Dioxide	SiO ₂	%	--	--	20.3 - 21.3
Aluminium Oxide	Al ₂ O ₃	%	--	--	4.0 - 5.0
Ferric Oxide	Fe ₂ O ₃	%	--	--	0.20 - 0.40
Calcium Oxide	CaO	%	--	--	62.0 - 63.50
Magnesium Oxide	MgO	%	--	--	0.80 - 1.40
Sulphur Trioxide	SO ₃	%	Max. 4.0	--	2.80 - 3.60
Chloride	Cl ⁻	%	Max. 0.10	--	0.030 - 0.050
Insoluble Residue	IR	%	Max. 5.0	--	0.25 - 0.60
Whiteness	Y Value		--	--	88.0 - 93.0
Physical Test Results					
Fineness (Specific Surface)	Blaines	M ² /kg	--	--	430 - 470
Initial Setting Time	IST	Minutes	Min. 45	Min. 45	120 - 170
Final Setting Time	FST	Minutes	--	Max. 420	140 - 190
Soundness-Le-Chatlier Expansion	mm		Max. 10	--	0.5 - 1.50
Soundness-Auto Clave Expansion		%	--	Max. 0.80	0.10 - 0.20*
Mortar Bar expansion (ASTM)		%	--	Max. 0.020	0.005 - 0.015*
Compressive Strength					
2 Days / 3 days (ASTM)		N/mm ²	Min. 20.0	Min. 13.0	24 - 31
7 Days		N/mm ²	--	Min. 20.0	40 - 45
28 Days		N/mm ²	Min. 52.5	Min. 28.0	54 - 58

*Values obtained as per ASTM Standards

Product Related Information

Admixture Addition	Trial should be carried out to verify quality and find out the optimum dosage.
Test Certificate	Available on request.
Availability	AlbaCem is supplied in Bulk tanker, LDPE Bags & Jumbo bags.
Storage	AlbaCem like all other cements should be stored dry in well-maintained silo (for bulk) or weather tight building (for bags) with no damp air or Moisture ingress.
Technical Support	Further information and advice can be obtained from Commercial Department.




NCF Product Portfolio

S.No	Products Type		Standards
1	Ordinary Portland Cement	NorCem	CEM I 42.5 N as per BS EN 197-1:2011 ASTM C150-12 Type I
	MSRC	MSCem	ASTM C150-12 Type II
2	Portland Blastfurnace Slag Cement	AlphaCem	CEM III/A-S 52.5 L as per BSEN 197-1:2011 Blended Cement IS(<70) as per ASTM C 595-11
		SRCEM	CEM II/B- SR 42.5 N as per BSEN 197-1:2011 Blended Cement IS(<70)(HS) as per ASTM C 595-11
3	GGBFS	ProCem	As per BSEN 15167-1:2006, BS 6699:1992 & ASTM C 989 - 10
4	White Composite Cement	AlbaCem	CEM II/B-M 52.5 N as per BS EN 197-1:2011
			Blended Composite Cement TYPE GU as per ASTM C 1157-10



HEALTH & SAFETY

Available

 Bulk  50kg bag  JB

Other Available Products