



CEM III/ A 42.5 N

Blast Furnace Cement



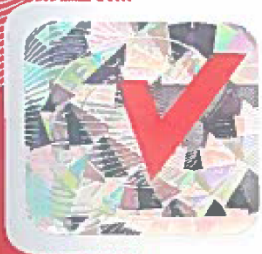
Blast furnace Cement - Low stress resistance in early days and outperforms all types of cement in the late days. Resistant to sulfate and chloride salts. It does not result about its use high amount of heat, so it's preferable to use it in large concrete blocks such as dams, bridges and tunnels.



According to Egyptian standard norm 4756 -1 / 2013
and technically comply with BS EN 197 -1 / 2011

CEM III/ A 42.5 N LH

Standard specification	Result		specifics
	GBFS 50%	GBFS 40%	
chemical composition			
Max 4.0	30.27 %	27.19 %	SiO2
	8.54 %	7.71 %	Al2O3
	2.39 %	2.68 %	Fe2O3
	49.71 %	52.75 %	CaO
	3.85 %	3.15 %	MgO
	1.47 %	2.15 %	SO3
	0.38 %	0.52 %	K2O
	0.62 %	0.37 %	Na2O
	< 0.10	0.018 %	CL
	< 2 ppm	1.13 ppm	Cr+6
	0.90 %	0.90 %	Insoluble residue
	1.11 %	1.16 %	Loss on ignition
Physical properties			
	4350 cm2/g	4450 cm2/g	Fineness (Blaine)
Max 10	0.50 mm	0.50 mm	Expansion
	166 J/g	176 J/g	Heat of Hydration 7 Days
Compressive strength			
Min 10	13.5 MPa	17.2 MPa	2 Days
	23.5 MPa	28.3 MPa	7 Days
Min 42.50 Max 62.50	43.50 MPa	46.5 MPa	28 Days
Min 60	195 Minutes	195 Minutes	Initial Setting Time
	255 Minutes	255 Minutes	Final Setting Time
	0.62 %	0.60 %	Free Lime



EC-CERTIFICATE

of Constancy of Performance
No 0906 – CPR – 20000250012494 / 02

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), and also in accordance with TÜV AUSTRIA procedures, this certificate applies to the construction product:

BLAST FURNACE CEMENT, CEM III A 42.5 N



Placed on the market under the name
NATIONAL COMPANY FOR CEMENT (NCC)

Head Office: Tower 5 Infront of Police Academy and next to the Armed Officers Club & Jewel Hotel- Zahraa Nasr City, Cairo, EGYPT

and produced in the manufacturing plant
NATIONAL COMPANY FOR CEMENT (NCC)

Plant : Bayad Al Arab Industrial Zone -Beni Suef, Egypt

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

EN 197-1:2011

under system 1+ for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product

This certificate was first issued on **2025-01-16** and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body or at the latest until **2028-01-15**.

Maria Agapitou
Head of Management Systems & Products Certification Division
Certification Body
at TÜV AUSTRIA

Athens, **2025-05-19**

This certification was conducted in accordance with TÜV AUSTRIA auditing and certification procedures and is subject to regular surveillance audits.

TÜV AUSTRIA HELLAS
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GEMI No.: 1650201000



CePRK525e

Headquarters in Athens bear the responsibility of the Certification decision