

TECHNICAL DATA SHEET

CEMIII/A 42.5N

Definition

The Kolos Slag Cement CEMIII/A 42.5N is a blast slag furnace cement which consists of:

- 35-64% of clinker
- 36-65% of blast furnace slag
- 0-5% minor additional constituents

The cement conforms to the European norm EN 197-1.

Mechanical Characteristics

Compressive Strength (MPa) (EN 196-1)	Typical Value	Requirement
2 days	15 - 20	≥ 10
7 days		
28 days	48 - 55	$\geq 42.5 \leq 62.5$
Initial Setting Time (min) (EN 196-3)		
	145 - 165	≥ 60
Soundness (Expansion) (mm) (EN 196-3)		
	0.5 - 1.5	≤ 10

Chemical Characteristics

Sulfate Content (SO ₃) (%) (EN 196-2)		
	2.0 - 3.5	≤ 4.0
Chloride Content (%) (EN 196-2)		
	0.01 - 0.02	≤ 0.1
LOI (%) (EN 196-2)		
	1.5 - 3.5	≤ 5.0
IR (%) (EN 196 -2)		
	0.2 - 2.0	≤ 5.0

Applications

FOR BUILDING WORKS

	Hydraulic & Marine Structures		Reinforced Concrete		General masonry
	Pre-stressed & Post-tensioned Concrete		Hard Concrete Surfaces and Screeds		Plastering
	Monolithic & Massive Concrete Structures		Small Concrete Elements		Soil Stabilization

FOR ROAD WORKS

	General masonry		Preparation of gravel cement
--	-----------------	---	------------------------------

The above mentioned values correspond to average auto-control values and can only be considered as indicative. Unless one has a written agreement, only limit guaranteed by the enforced standards can be considered as contractual. This TDS remains the intellectual property of Kolos Cement Ltd and cannot be used without prior authorisation from Kolos Cement Ltd.



Cement Uses

It is recommended to use the cement within 30 days after production date that appears on the edge of the bag. It is also recommended to have a proper stock management in order to avoid dead stock.

Storage

- The cement bags must be stored on pallets. They must not be in contact with the ground in order to avoid upwelling of water by capillarity.
- The bags must be stored in a dry environment and protected from humidity and rain.
- By keeping your bags of cement from rain and moisture, you will retain their quality.

General Recommendations

- Respect dosages and refer to the instructions on the packaging.
- Avoid prolonged contact with the skin and wear appropriate protective gloves and safety glasses.
- Keep out of reach of children.