

## ALUMINIUM POWDER FOR LIGHT WEIGHT CONCRETE

Trade Mark: NICO99

Characteristics	UOM	*Test Method	Specification
<u>Sieve analysis:</u> Passing through sieve 45 µm	%	M/QA/SOP/003	90 min
Apparent Density	g/cc	M/QA/SOP/004	0.15 - 0.19
Surface area	cm <sup>2</sup> /g	M/QA/SOP/037	17000 - 22000
Active Aluminium content	%	M/QA/SOP/016	90 min
Particle Size Distribution: d50%	µm	M/QA/SOP/038	15 - 20
Miscibility in water		M/QA/SOP/029	Miscible on Vigorous Stirring
<u>Gas evolution at 25°C:</u> Volume of gas collected in 16 minutes	ml	M/QA/SOP/007	75 min

\* M/QA/SOP/003, M/QA/SOP/004, M/QA/SOP/037, M/QA/SOP/016, M/QA/SOP/038, M/QA/SOP/029 & M/QA/SOP/007 are based on ISO-1247, ASTM B-417, ASTM C-204, IS: 438, Malvern, In-house & In-house respectively.

NICO 99 Hydrophilic lamellar Aluminium flake powder made out of primary high pure Aluminium ingot of > 99.7 % purity, by atomization of molten Aluminium liquid, followed by safe dry ball milling process in the field of application as gassifier as well as expanding agent for producing light weight Aerated Autoclaved Concrete Blocks; the most important criterion for the use of NICO99 aluminium powder is the gas reaction of the pigments to fit the process to make approx 350 kg/m<sup>3</sup> AAC block density characteristic..

*The data on this technical information sheet correspond with the current status of our knowledge and experience. The liability for the application and processing of our products lies with the buyer, and he is also responsible for observing any third party rights. We reserve the right to alter any product data as a result of technical progress or further developments in the manufacturing process.*

## MEPCO

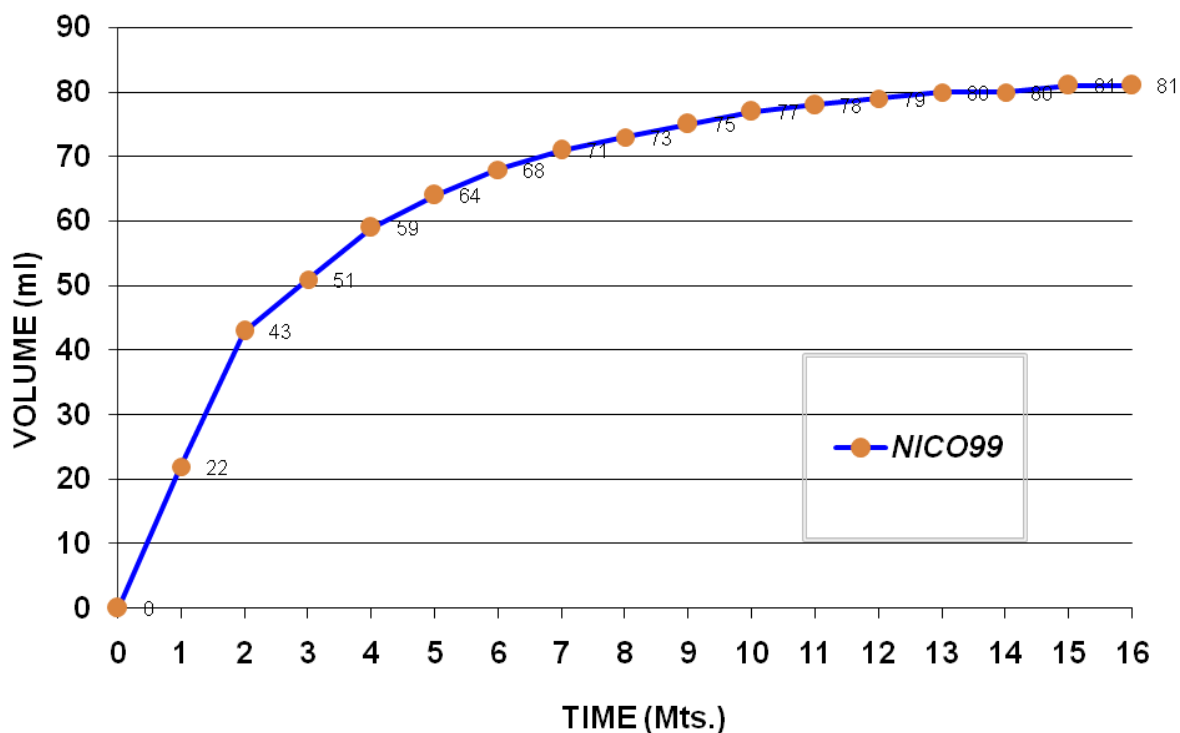
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## LWC Aluminium Powder NICO99

**Gas Evolution Test:** (H<sub>2</sub> gas evolution in ml at 25°C for 0.07g of Al Powder in 400 ml of 2 % CaO solution expressed at atmospheric pressure)



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