

## ALUMINIUM POWDER FOR LIGHT WEIGHT CONCRETE

Product: NICO 99

Characteristics	UOM	Test Method	Specification
Sieve analysis: Passing thro 45 µm	%	ISO-1247	90 min
Apparent Density (Loose pouring)	g/cc	In-house	0.150 – 0.190
Surface area (Blaines)	cm <sup>2</sup> /g	ASTM C-204	17000 – 22000
Active Aluminium content	%	IS-438	90 min
Miscibility in water		In-house	Miscible on stirring
Gas evolution at 25°C for 0.07 g of Al Powder in 400 ml of 2 % CaO solution within 16 minutes	ml	In-house	75 min
D50	µm	Malvern-2000	15 – 20

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.

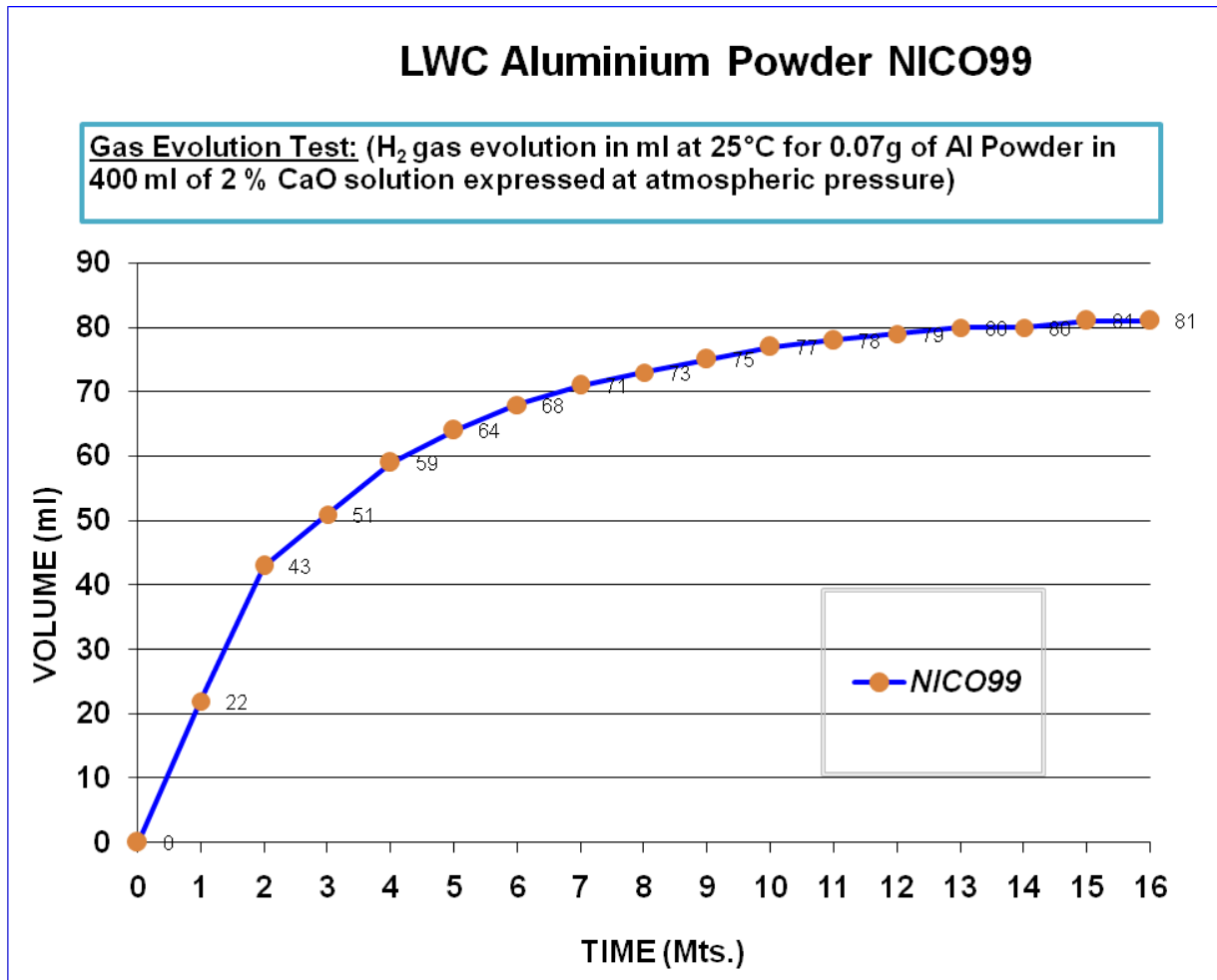
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