

ECO₂ 99+ SYNTHETIC MAGNESIA



DESCRIPTION	ECO ₂ 99+ synthetic magnesia (MgO) is a fine white powder produced from serpentine tailings using patented ECO ₂ technology. Ultrapure MgO content, low bulk density, and totally exempted of Boron.			
	Produced with revolutionary CO ₂ captation technology for lowest emissions in the marketplace allowing downstream customers to significantly reduce their carbon footprint.			
USES	ECO ₂ 99+ synthetic magnesia matches a wide range of speciality applications within the industrial sector such as HP FM electrical, Mg metal, Mg chemicals, ceramics, cements, pharmaceuticals, UHP MgO, hydrotalcite market, flame retardants, and other ultra high purity applications. It is also suitable to be converted into Mg(OH) ₂ .			
CHEMICAL COMPOSITION	Oxide	Unit	ECO₂ 99+ Low React. Typical (LOI-free)	ECO₂ 99+ High React. Typical (LOI-free)
	Magnesium Oxide (MgO)	-	99.74%	99.74%
	Silicon Oxide (SiO ₂)	-	0.07%	0.07%
	Calcium Oxide (CaO)	-	0.03%	0.03%
	Ni	ppm	754	754
	Cr	ppm	105	105
	Cl	ppm	34	34
	Fe	ppm	< 10	< 10
	Mn	ppm	23	23
	Cu	ppm	< 40	< 40
PHYSICAL PROPERTIES	Property	Unit	Typical	Typical
	Loose Bulk Density	g/cm ³	0.25	0.25
	Median Particle Size	microns	12	5
	Loss On Ignition (LOI)	%	1.5	14.3
	Surface Area (BET)	m ² /g	18.5	141.2
	Citric Acid Reactivity	seconds	40	3
CARBON FOOTPRINT	CO ₂ emission	t CO ₂ e / t MgO	0.26 - 1.26 (ISO 14067:2018 / Cradle-to-gate)	
PACKAGING	ECO ₂ Magnesia offers a variety of packaging options, including bulk (truck and railcar), bulk bags, and bags. Please contact a sales representative for information.			
STORAGE	Keep away from moisture. Store in a dry place to avoid caking.			

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