

Einsatzbeispiele /
Applications

MAGNIFIN H-7 C ist ein hochreines Magnesiumhydroxid, das mit einer speziellen Fettsäure beschichtet wurde. Die mineralische Rohstoffbasis sowie ein patentierter Prozess garantieren einen gleichmäßigen Kristallaufbau.

MAGNIFIN H-7 C wird empfohlen für die halogenfreie, flammwidrige und rauchunterdrückende Ausrüstung von Kunststoffen und Elastomeren, z.B. EVA, EPDM und PVC. Die Wirkung basiert auf einer thermischen Zersetzung, die erst bei ca. 340°C beginnt. Dabei entstehen keine toxischen oder korrosiven Gase. Die Oberflächenbehandlung unterstützt die Verträglichkeit des Füllstoffes mit der Polymermatrix und verbessert somit die mechanischen Eigenschaften des Compounds.

MAGNIFIN H-7 C is a high-purity magnesium hydroxide, treated with a special fatty acid coating. Based on a mineral raw material, the patented process guarantees a regular structure of the cristallite.

MAGNIFIN H-7 C is tailor-made for plastic and elastomer applications, e.g. EVA, EPDM and PVC, and represents a halogen free flame retardant with low smoke emission and high thermal stability up to 340°C. During the decomposition process no toxic or corrosive gases are generated. The surface treatment favours the compatibility of filler and polymer matrix and therefore improves the mechanical properties of the compound.

Spezifikation /
Specification

Mg(OH) ₂	[%]	≥ 99.8	(*)
Feuchte / Moisture (105°C)	[%]	≤ 0.3	(bei Absackung / when packed)
Spezifische Oberfläche / Specific Surface Area (BET)	[m ² /g]	5.0 – 8.0	
Elektrische Leitfähigkeit / Electrical Conductivity	[μS/cm]	≤ 200	(10 % Susp. in deion. Wasser / 10 % susp. in de-ion water)
Teilchengröße / Particle Size	d ₁₀ [μm] d ₅₀ [μm] d ₉₀ [μm]	0.4 – 0.7 0.9 – 1.3 1.4 – 2.0	} gemessen mit MALVERN MASTERSIZER 2000 (Laserbeugung) measured by MALVERN MASTERSIZER 2000 (laser diffraction)
Siebrückstand > 45 μm / Sieve Residue > 45 μm [%]		≤ 0.1	
Schüttdichte / Bulk Density	[g/l]	300 – 500	



Typische Werte / Typical Data

Glühverlust / Loss on Ignition 1200°C	[%]	31	(*)
Dichte / Density	[g/cm ³]	2.4	(*)
Mohssche Härte / Mohs Hardness		2.5	(*)
Brechungsindex / Refraction Index		1.56 – 1.58	(*)
Weißgrad / Whiteness (DR LANGE 457 nm)	[%]	> 96	(*)
Al ₂ O ₃	[ppm]	< 50	} Bestimmung mittels XRF an MAGNIFIN H-7 measured by XRF on MAGNIFIN H-7
Fe ₂ O ₃	[ppm]	< 50	
MnO	[ppm]	< 10	
CaO	[ppm]	< 50	
SiO ₂	[ppm]	< 200	
NiO	[ppm]	< 50	
Cr ₂ O ₃	[ppm]	< 10	
B ₂ O ₃	[ppm]	< 1	
Cu	[ppm]	< 10	

(*) Werte mit einem Sternchen versehen beziehen sich auf das unbeschichtete Substrat.
(*) Values with an asterisk refer to the uncoated substrate.

Die oben genannten Werte sind nur als Richtwerte zu verstehen und nicht etwa als zugesicherte Eigenschaften.
The above mentioned values should be taken only as indications and not as guaranteed properties.

Shipping Information

Transportation classification: not regulated for transportation
Harmonized tariff number: 28161000

Packaging and minimum order quantity information is available from sales or customer service.

Safety and Handling Information

For specific safety, toxicity and handling information, please refer to the material safety data sheet on this product.

Chemical Registration Numbers

Chem. Bezeichnung / Chem. name: Magnesium hydroxide
Formel / formula: Mg(OH)₂
CAS No.: 1309-42-8
EC/EINECS No.: 215-170-3

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