



# Hidromag Ly1

## Technical Data Sheet



Química del Rey

### Hidromag Ly1

High Purity Synthetic Magnesium Hydroxide for high performance and high thermal stability in polymer compounds.

Optimized Hidromag grade, precipitated through a different reactor scheme allowing to reduce the edges of the particles, improving flowability and processability parameters and achieving better mechanical and electrical properties in the compounds.

### Chemical Properties

	Typical Value	Unit	Method
Mg(OH) <sub>2</sub>	99	%	Gravimetric
CaO	0.40	%	AAS
Chloride	0.15	%	AAS
Fe <sub>2</sub> O <sub>3</sub>	0.03	%	AAS
Al <sub>2</sub> O <sub>3</sub>	0.06	%	AAS
SiO <sub>2</sub>	0.10	%	AAS
Mn	< 50	ppm	ICP
Cr	< 2	ppm	ICP
Ni	< 10	ppm	ICP
Cu	< 2	ppm	ICP
Moisture (105 °C)	< 0.3	%	Gravimetric
Loss on ignition (LOI)	31	%	Gravimetric

### Physical Properties

	Typical Value	Unit	Method	
Specific surface area (BET)	9 -10	m <sup>2</sup> /g	Flow Sorb II (Micromeritics)	
Oil absorption	≈ 33	ml/100g	ASTM D 281-95	
Particle size distribution	d10 d50 d90	0.25 - 0.4 1.3 - 1.7 4.0 - 7.0	µm µm µm	Horiba (Laser Diffraction)
Sieve residue > 45 µm (325 mesh )	< 0.01	%	Gravimetric	
Loose density	350	g/dm <sup>3</sup>	Gravimetric	
Tapped density	540	g/dm <sup>3</sup>	Gravimetric	



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### Other Properties

	Typical Value	Unit	Method
Electrical conductivity	< 200	μS/cm	10% suspension
Brightness (Tappi 457 nm)	97	%	CM 3600d
Hardness (Mohs)	2.5		
Refractive index	1.57		ASTM D-542

### Storage

Magnesium hydroxide products are slightly hygroscopic. Containers/bags should be stored dry and tightly closed. Opened bags should be sealed again. Though storage shelf life has not been determined definitely, it is recommended to use the product from unopened containers/bags within 12 months of manufacture.

### Chemical Registration

CAS No. 1309-42-8

EC/EINECS No. 215-170-3

R/S phrase codes none

### Responsibility / Liability notes

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