

Certificate of Analysis
Hydroxyapatite Nanoparticle

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Key Spec Table

CAS #	EC Number	Hill Formula	Molar Mass	Grade Value
12167-74-7	235-330-6	[Ca ₅ (OH)(PO ₄) ₃] _x	502.31 g/mol	LR

Pricing & Availability On Quotation
Time

Description	
Catalogue Number	105797
Synonyms	Magnesia usta

Product Information	
CAS number	12167-74-7
EC number	235-330-6
Grade	IMCN
Hill Formula	$[\text{Ca}_5(\text{OH})(\text{PO}_4)_3]_x$

Product Information	
Molar Mass	502.31 g/mol
HS Code	2830
Quality Level	ICMC

Physicochemical Information**Boiling point** 1800 °C (1000 hPa)**Density** 1.580 g/cm³**Melting Point** 1100°C**pH value** 10.3 (H₂O, 20 °C) (saturated solution)**Bulk density** 100 kg/m³**Safety Information according to GHS****RTECS** OM3850000**Storage class** 10 - 13 Other liquids and solids**WGK** WGK 1 slightly hazardous to water

Disposal	14 Inorganic salts: Container I. Neutral solutions of the these salts: Container D. Before
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Safety Information according to GHS

placing in Container D, check the pH with pH-Universal indicator strips (Item No. 109535).

Storage and Shipping Information

Storage NoTempLimit

Transport Information

**Declaration
(railroad and
road) ADR, RID** Kein Gefahrgut

**Declaration
(transport by air)
IATA-DGR** No Dangerous Good

Declaration (transport by sea) IMDG-Code	No Dangerous Good
Specifications	
Identity	passes test
Assay (complexometric)	≥ 97 %
Appearance of solution	passes test

Substances soluble in water	≤ 0.4 %
Substances insoluble in hydrochloric acid	≤ 0.02 %

Substances precipitated by ammonia	$\leq 0.02 \%$
Carbonate (as CO₂)	$\leq 1.5 \%$

Specifications

Chloride (Cl)	$\leq 0.01 \%$
Nitrate (NO₃)	$\leq 0.005 \%$
Sulfate (SO₄)	$\leq 0.001 \%$
Sulfate and sulphite (as SO₄)	$\leq 0.02 \%$

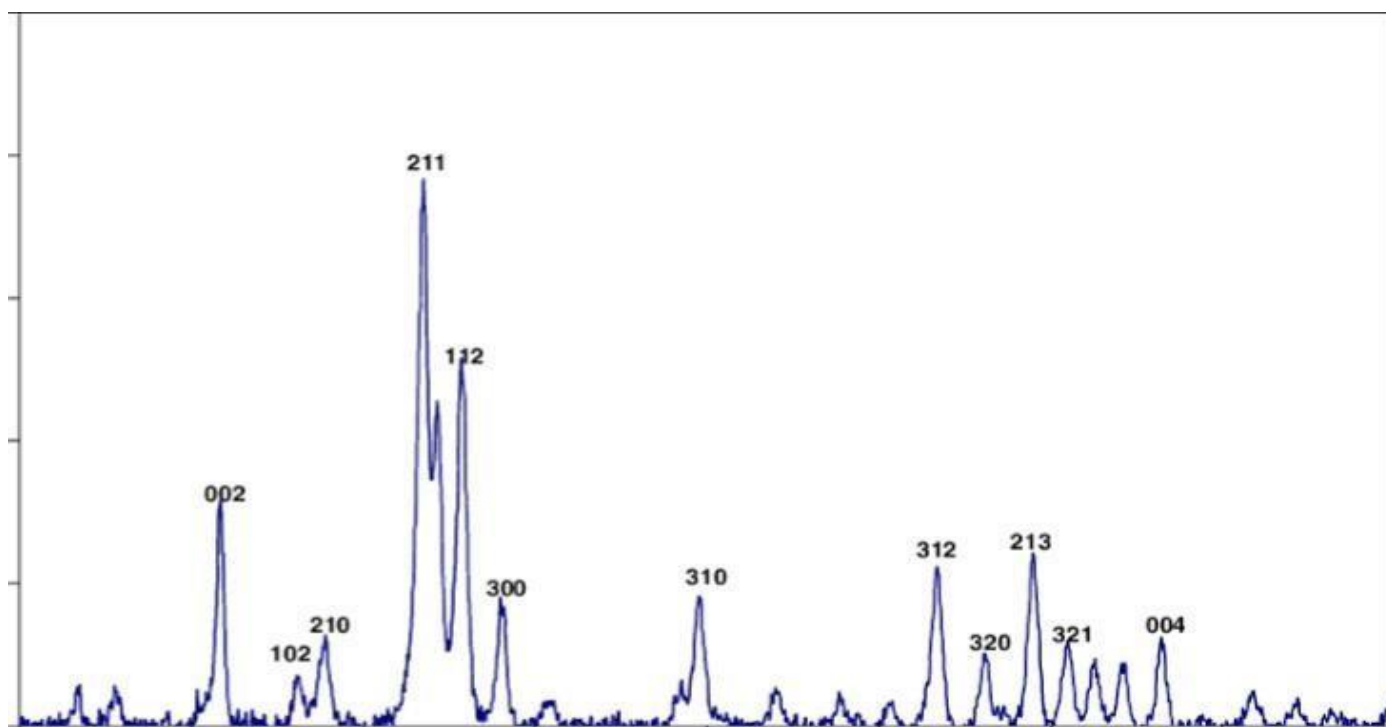
Total nitrogen (N)	≤ 0.002 %
Heavy metals (as Pb)	≤ 0.003 %

As (Arsenic)	≤ 0.0001 %
Ca (Calcium)	80 %
Specifications	

Cu (Copper)	≤ 0.001 %
Fe (Iron)	≤ 0.005 %
K (Potassium)	≤ 0.005 %

Mn (Manganese)	≤ 0.0005 %
Na (Sodium)	≤ 0.25 %
Pb (Lead)	≤ 0.001 %
Zn (Zinc)	≤ 0.0005 %
Barium and Strontium (as Ba)	≤ 0.005 %
Loss on ignition (1000 °C)	≤ 2.0 %
Nanopartical Size XRD PSA	20nm 30nm 50nm
Conforms to imcc	

XRD



SEM

