



DICOM SANAQ® SP204

Co-processed excipient containing Light Magnesium Oxide suitable for acid sensitive APIs

DICOM SANAQ® SP204 (Microcrystalline cellulose / Light Magnesium Oxide / Sodium Starch Glycolate / Pregelatinized Starch / Maize Starch)	
Chemical Name	Microcrystalline cellulose – 35 to 45 % Light Magnesium Oxide – 18 to 28 % Sodium Starch Glycolate – 3 to 10 % Pregelatinized Starch – 3 to 8 % Maize Starch – 10 to 18 %
CAS Number	9004346 / 1309484 / 9063381 / 9005258 / 9005258
DMF – FDA (USA)	033656 Type IV
GMP standard	ISO 9001-2015, WHO GMP, EXCIPACT (in progress)

Large Surface area of Light Magnesium Oxide gives enhanced protection / stability to acid labile APIs from a 360° alkaline microenvironment.

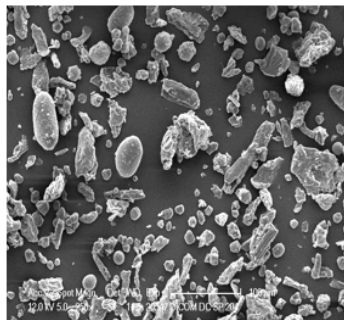
Handling and processing with Light Magnesium Oxide is challenging, DICOM SANAQ-DC® SP204 designed in a way for easy handling and maximum protection.

Improper die filling. Segregation tendency (leads to weight variation / non-uniform alkaline microenvironment / unstable formulation)

Light magnesium oxide is very fluffy and difficult to process directly

Tooling damage, in some cases. Special coating required on tools.

Tests	Observations
pH (2% aq. suspension)	9.5 – 11.0
Bulk Density (g/mL)	0.59
Tap Density (g/mL)	0.68
Hausner's ratio	1.16
Compressibility index (%)	14.07
LOD (%)	0.32
Angle of repose (°)	30.73°
Residue on ignition	NMT 30.0%
Loss on drying	NMT 3.0 %
Flow rate (g/s)	9.70
Particle size distribution	20 # NMT 5% retained 100# NLT 65% retained



- Uniform Alkaline protection from all the side.
- Compression at high speed with uniform weight and quality attributes.
- Enhanced Stability for acid labile APIs.
- Better product quality, robust tablet with reduced friability.
- Reduced tolling damage because of indirect contact and protection by other excipients in combination. No special coating required on tools...

High bulk density makes this product suitable to formulate high tablet weight / capsule fill weight in smaller die / capsule size respectively.

Supplier

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