



UMANG

innovative solutions



SPRAYSPHERES™

US DMF : 20394

SPRAYSPHERES™

UMANG PHARMATECH

a company engaged in the manufacturing development of branded pharmaceutical excipients with global market presence.

Quality Management... The basis for success.

Our manufacturing plant is GMP certified and manufactures products complying with cGMP practices.

Our strategic approach :

- Delivering best quality products manufactured in accordance to customer's specific requirements at a competitive price.

Partnering... To improve performance

- Long term partnerships with our customers enable us to deliver consistent, high quality products.
- Total customer driven policy and full services are our major goals.
- **SPRAYSPHERES™** division is manufacturing "Neutral Pellets", destined for pharmaceutical use, in compliance with BP, EP & USP.
- **SPRAYSPHERES™** are used by Pharma & Food manufacturers specializing in Modified Release formulation, Health Care and Pharmaceutical industries producing ORAL CONTROLLED drug formulations.

Research & Development :

The goals of our R & D :

- To research, study, setup new components & their applications.
- Optimization of production process.
- Quality upgradation, stability & new applications are our targets.

Sugar Spheres / MCC Spheres / Speciality Spheres Products are :

- Neutral micro granules based on Sucrose, Corn Starch & MCC for pharmaceutical use,
- Available in standard & special sizes from # 12/16 upto # 60/80.
- Other sizes available upon request.



SPRAYSPHERES™ - MS

Microcrystalline Cellulose Spheres

Neutral pellets for sugar free products, highly soluble & controlled released formulation products.

Definition :

- The **SPRAYSPHERES™ - MS** have been developed using microcrystalline cellulose (MCC) as base.
- Microcrystalline cellulose is purified, partly depolymerised cellulose, prepared from alpha-cellulose.
- MCC complying with Ph. Eur.
- Manufacturing in accordance with the cGMP.

General properties :

- Nearly white hard, uniform and spherical particles. (sphericity degree average >90%)
- Very low friability level.
- MCC high physicochemical inertness improves the stability of the finished product.
- Insoluble in water, absolute ethanol, acetone.

Particle size specifications :

- Minimum of 96% (w/w) of **SPRAYSPHERES™ - MS** are between the lower and the upper limits of the size stated on the label.
- The **SPRAYSPHERES™ - MS** selection is obtained by the decreasing size by sieving method.

Sizes in mesh

60/80	40/60
30/40	20/30
16/20	12/16

Applications :

- Used as cores to be coated in the manufacture of dry pharmaceutical forms. It enables greater accuracy and consistency in drug layering and coating.
- Suitable for non-carcinogenic products.
- Adopted to controlled release or sustained - release formulations **SPRAYSPHERES™ - MS** make it easy to produce spherical micro granules which has the most suitable size and dissolution profile to each specific purpose.

SPRAYSPHERES™ - SS

Cores for Controlled - Release Formulations

Definition :

- **SPRAYSPHERES™ - SS** contains not more than 92 per cent of sucrose, calculated on the dried basis. The remainder consists of corn starch as per the European Pharmacopoeia.
- Compliance with Ph. Eur., USP / NF and JP.
- Produced in accordance with the cGMP.

Particle size specifications :

Particle size distribution (analyzed by laser diffraction) shows the symmetrical character of the distribution. The single model profile, associated with the low standard deviations, revealed a very homogeneous population of **SPRAYSPHERES™ - SS**.

Application :

- Used as cores to be coated in the manufacture of dry pharmaceutical forms especially for controlled release & speciality formulations.

Sizes in mesh

60/80	40/60
30/40	20/30
16/20	12/16

SPRAYSPHERES™ - SP Speciality Products

Definition:

SPRAYSPHERES™ - SP base of sugar spheres and micro crystalline spheres coated with cationic polymers.

Applications :

- Suitable for very low / high dosage forms and for drugs with a low therapeutic margin.
- Fillers for Dispersible Tablets.
- Used as cores to be coated in the manufacture of highly hygroscopic / soluble drugs / unstable drug.
- Using **SPRAYSPHERES™ - SP** products are interesting into a transfer strategy of capsules with pellets to tablets.

Sizes in mesh

60/80	40/60
30/40	20/30
16/20	12/16

Worldclass FDA & GMP Compliant Facilities



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