

Sugar Spheres SANAQ[®]

Neutral Pellets for controlled-release Formulations

Sugar Spheres SANAQ are neutral pellets made of Sucrose and maize starch according to the monographies for "Sugar Spheres" - NF, Ph. Eur. and JP. The almost spherical cores are used as a neutral basis for the production of Pellets loaded with API.



Applications

The Sugar Spheres SANAQ are designed for the production of dry dosage forms, especially for formulations with a controlled release of the active substance (sustained release). With its use multiparticulate systems are achieved, which can be filled in capsules, sachets or tablets. The neutral starter cores can be used with the different technologies for layering and coating. Such technology is used in the pharmaceutical industry but also with nutraceuticals/food supplements and in the food industry.

Particle sizes

Type	250	355	355A	425	500	600	710	850	1000
Particle size / μm	250-355	355-425	355-500	425-500	500-600	600-710	710-850	850-1000	1000-1180
US Standard Sieve	45/60	40/45	35/45	35/40	30/35	25/30	20/25	18/20	16/18
Sieve Analysis									
100%	$\leq 425\mu\text{m}$	$\leq 500\mu\text{m}$	$\leq 600\mu\text{m}$	$\leq 600\mu\text{m}$	$\leq 710\mu\text{m}$	$\leq 850\mu\text{m}$	$\leq 1000\mu\text{m}$	$\leq 1180\mu\text{m}$	$\leq 1400\mu\text{m}$
min. 90%	$\leq 355\mu\text{m}$	$\leq 425\mu\text{m}$	$\leq 500\mu\text{m}$	$\leq 500\mu\text{m}$	$\leq 600\mu\text{m}$	$\leq 710\mu\text{m}$	$\leq 850\mu\text{m}$	$\leq 1000\mu\text{m}$	$\leq 1180\mu\text{m}$
max. 10%	$\leq 250\mu\text{m}$	$\leq 355\mu\text{m}$	$\leq 355\mu\text{m}$	$\leq 425\mu\text{m}$	$\leq 500\mu\text{m}$	$\leq 600\mu\text{m}$	$\leq 710\mu\text{m}$	$\leq 850\mu\text{m}$	$\leq 1000\mu\text{m}$

Standards sizes - additional sizes available on demand

General Information

Packaging	50kg Cardboard Drums with Polyethylene Inliner
Storage Condition	In closed original packaging, dry at 15 - 30°C
Shelf life	3 years
Samples / Records	available during 5 years

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Specifications

Definition

Sugar spheres are white nearly spherical pellets with a slight sweet taste. They contain not more than 92% of sucrose, calculated on the dried basis. The remainder consists of maize starch.

Sugar Spheres SANAQ are analysed according to the Ph. Eur. and USP.

Chemical Specifications

Loss on drying	≤ 4.00%
Sulphated ash	≤ 0.20%
Heavy metals	≤ 5ppm
Sucrose content	≤ 92%
Specific rotation	≤ + 61°
O.V.I.	absent

Physical Properties

True density	1.550 - 1.590
Surface area (BET)	> 0.100 m ² /g
Carr index	< 10%
Flow time	< 10s
Flowability index	≥ 9

Microbiological Specifications

Total aerobic microbial count	≤ 1'000/g
Salmonella	absent/1g
Escherichia coli	absent/1g
Moulds	≤ 100/g