

Neutral Starter Cores

CELLETS®

Microcrystalline Cellulose spheres - Ph. Eur., USP-NF			
Neutral starter core for pellet formulations (100% Microcrystalline Cellulose)			
Type	µm	mesh approx.	Main Applications of CELLETS®
CELLETS® 90	63-125	120-230	Produced of pure Microcrystalline Cellulose and purified water for less interactions with the API.
CELLETS® 100	100-200	70-140	
CELLETS® 127	100-160	90-140	Insoluble starter pellets for combination drug formulations.
CELLETS® 175*	150-200	70-100	
CELLETS® 200	200-355	45-70	Highly spherical and narrow particle size for reproducible production processes and content uniformity.
CELLETS® 263	212-300	50-70	
CELLETS® 350	350-500	35-45	Shorter and more stable layering process with higher yields due to low friability and non-solubility in comparison to standard starter cores.
CELLETS® 500	500-710	25-35	
CELLETS® 700	710-1000	18-25	Smallest size starter cores (< 200µm) for the production of micropellets and MUPS tablet formulations incl. ODT.
CELLETS® 780	710-850	20-25	
CELLETS® 1000	1000-1400	14-18	

*min. 75% within fraction - other types min. 85% within fraction

SUGAR SPHERES SANAQ®

Sugar Spheres / Non-Pareil Seeds - Ph. Eur., USP-NF			
Neutral starter core for pellet formulations (Sucrose and corn starch)			
Type*	µm	mesh approx.	Main Applications of Sugar Spheres
SUGAR SPHERES SANAQ® 355	355-500	35-45	Sugar Spheres Sanaq® are used as neutral starter cores for controlled release pellet formulations.
SUGAR SPHERES SANAQ® 500	500-600	30-35	
SUGAR SPHERES SANAQ® 600	600-710	25-30	For the use in capsule or MUPS tablet formulations.
SUGAR SPHERES SANAQ® 710	710-850	20-25	
SUGAR SPHERES SANAQ® 850	850-1000	18-20	Highly spherical and consistent particle size distribution for reproducible production processes and content uniformity.
SUGAR SPHERES SANAQ® 850A	850-1180	16-20	
SUGAR SPHERES SANAQ® 1000	1000-1400	14-18	Low friability for more stable production processes.
SUGAR SPHERES SANAQ® 1180	1180-1400	14-16	
SUGAR SPHERES SANAQ® 1400	1400-1700	12-16	

*additional PSD types on demand

Functional Starter Cores

TAP®

Tartaric Acid Pellets - Ph. Eur., USP-NF			
Functional starter core for extended release pellet formulations			
Type	µm	mesh approx.	Main Application - Characteristics
TAP® 200	100-350	45-140	Certain API show pH dependent solubility which can be a hurdle in the formulation of extended release dosage forms.
TAP® 400	300-500	35-50	
TAP® 425-500	425-500	35-40	TAP acts as a pH-modifier for substances (weakly basic drugs) with a poor solubility in higher pH that occur in the lower GIT. TAP enhances the solubility in this environment.
TAP® 500	400-600	30-40	
TAP® 600	500-710	25-35	
TAP® 700	600-800	20-30	

TAP® are spherical cores and consist of 100% Tartaric Acid.

High Performance API

Ibuprofen DC 100

Ibuprofen Pellets (Ph. Eur)			
Spherical Ibuprofen for optimised Direct Compression and coating processes			
Type	µm	mesh approx.	Main Application / Advantages
Ibuprofen DC 100	200-500	35-70	Opportunity for long term high speed Direct Compression.
Ibuprofen DC 100 consists of 100% pure, specifically shaped Ibuprofen. It does not show sticking and picking behavior in high speed tableting.			Easier coating for taste masking (ODT) and extended release formulations. Smaller tablets / higher drug load.

Co - Processed Excipients DC

Homogenous mixture of excipients designed for high compressibility, superior dilution and desired disintegration time			
Type	PSD	Flow properties	Main Application
SANAQ® SL 004 Lactose / Starch	SANAQ® SL 004 has average PSD by Malvern method within range 300 – 550 microns	SANAQ SL 004® shows excellent and superior free powder flow compared with physical mixture in same ratio of components showing very poor flow properties.	Co Processed excipient based on mix of Lactose monohydrate and Starch. It is designed for direct compression providing help to improve tablet hardness, faster disintegration, and superior flowability Excellent flowability Fast disintegration of final tablets Disintegration of tablets independent from tablet hardness and lubricant level
SANAQ® ML 011 Lactose monohydrate/MCC	SANAQ® SL 011 has average PSD by Malvern method within range 250 – 600 microns	Bulk Density (g/mL) = 0.55 Tap Density (g/mL) = 0.67 Hausner's ratio = 1.20 Carr Index (%) = 16.84 LOD (%) = 0.02 Angle of repose (α) = 34.12	Co-processed excipient based on lactose monohydrate and cellulose micro crystalline Smooth surface of the resulting tablets It provides superior tablet hardness and powder flowability Excellent compaction excipient for sensitive APIs Useful excipient for low dosage formulations Consistent tablet hardness High weight consistency at all compaction speeds
SANAQ® SP 204 Co processed excipient for special formulation moisture sensitive and controlled alkaline conditions.	SANAQ® SP 204 PSD observed by Malvern 300-600 microns	Bulk Density = 0.59 g/mL Hausner ratio = 1.16 Carr Index(%) = 14.07 Angle of repose = 30.73°	SANAQ® SP204 is especially tailored to help formulation development of moisture sensitive APIs and for formulations where alkaline conditions need to be controlled for stability purpose. SANAQ® SP204 is microcrystalline cellulose (MCC) based co-processed excipient along with MgOxide-Starch-Pregelatinized starch-Sodium stearyl glycolate.
SANAQ® SP 205 Co processed excipient for special formulation hygroscopic and deliquescent APIs	Average PSD observed by Malvern was 300-600 microns. It founds optimal PSD ensuring superior flow properties. Optimal particle size and particle morphology will give minimal segregation.	Bulk Density (g/mL) = 0.52 Angle of repose (°) = 33 Flow rate (g/s) (10 mm orifice) = 3 – 4 Flow rate (g/s) (20 mm orifice) = 5 – 6	SANAQ® SP205, is microcrystalline cellulose (MCC) based excipient, co-processed with colloidal silicon dioxide (CSD). It is pre-granulated complete system along with auxiliary excipients such as binder and disintegrant having superior tableting properties. It is tailor made specifically designed excipient for moisture sensitive and low bulk density / fluffy APIs.

Pellets on Demand

We continuously develop further material in Pellet form and gladly evaluate possibilities based on customer demand.

This can be applied for API pellets & coated API.

Please get in touch with us.

Tableting Aids

Binders, Lubricants, Disintegrants

Microcrystalline Cellulose, Sodium Starch Glycolate, Crospovidone, Povidone, Sodium Stearyl Fumarate ...

Pharmaceutical Excipients, Innovation and Technology since 1982

Binders

MCC SANAQ®

Microcrystalline Cellulose

VVP SANAQ®

Soluble Povidone – Polyvinylpyrrolidone

Mannitol SANAQ® DC

100 % Mannitol

Disintegrants

SSG SANAQ®

Sodium Starch Glycolate

VVP-P SANAQ®

Crospovidone - Polyvinylpolypyrrolidone

Lubricants

LubriSanaq®

Sodium Stearyl Fumarate

Co - Processed Excipients DC

SANAQ® SL 004

SANAQ® ML 011

SANAQ® SP 204

SANAQ® SP 205

Functional Starter Cores

TAP® - Tartaric Acid Pellet

pH-modifier for extended release formulations

Neutral Starter Cores / Drug Layering

Celllets®

Neutral starter cores of pure Microcrystalline Cellulose

SUGAR SPHERES SANAQ®

Sugar spheres / non-pareils

High Performance API

Ibuprofen DC 100

100% Ibuprofen pellets for Direct Compression and coating processes for taste masking (OTD) & extended release formulations.

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Tableting Aids by Pharmatrans Sanaq AG

MCC SANAQ®

Microcrystalline Cellulose - Ph. Eur., USP-NF

Filler, binder and diluent in tablet, capsule and pellet formulations

Type	PSD (d50)	Bulk Density (g/cm ³)	Main Application
MCC SANAQ® 101	30-70µm	0.26 - 0.31	Standard fine grade especially suited for wet granulation, roller compaction, extrusion/spheronisation and direct pelletisation. Highly compactible.
MCC SANAQ® 102	60-100µm	0.28 - 0.33	Standard medium size grade for the use in direct compression. Enhanced flowability and high compactible.
MCC SANAQ® 200	120-170µm	0.29 - 0.36	Coarse grade with excellent flow properties for the use in direct compression.

PVP SANAQ®

Soluble Polyvinylpyrrolidone / Povidone - Ph. Eur., USP-NF

Binder for tablet and capsule formulations

Type	K-value	Main Application
PVP SANAQ® K15	13-17	<ul style="list-style-type: none"> - Binder for tablets and in capsule formulations - Bioavailability enhancement - Film formation - Solubilization - Injection preparations - Stabilization of suspensions - Drug stabilization - Dietetic tablets in nutritional products
PVP SANAQ® K17	15-19	
PVP SANAQ® K25	24-27	
PVP SANAQ® K30	29-32	
PVP SANAQ® K90	85-95	

PVP-P SANAQ®

Crospovidone / Polyvinylpolypyrrolidone - Ph. Eur., USP-NF

Disintegrant for tablet and capsule formulations

Main Application

- Disintegrant in tablets and hard gelatin capsules
- Stabilizer for oral and topical suspensions
- Improvement of dissolution and bioavailability
- Filtration aid

SSG SANAQ®

Sodium Starch Glycolate Type A - Ph. Eur., USP-NF, JPE

Superdisintegrant for tablet and capsule formulations

Properties	Main Application
<ul style="list-style-type: none"> - Rapid absorption of water & enormous swelling power result in a rapid tablet disintegration. - Insoluble in water - no viscous barrier formed when mixed with water. 	<ul style="list-style-type: none"> - Disintegrant for tablets & capsule formulations - Effective for tablets produced by direct and wet granulation - Concentration: 2-8% w/w - usually approx. 4%

LubriSanaq®

Sodium Stearyl Fumarate - Ph. Eur., USP-NF

High quality lubricant for tablet and capsule formulations

Main Application / Advantages	API Examples
<ul style="list-style-type: none"> - Alternative lubricant when Magnesium Stearate does not perform as required. In comparison: - Superior tablet hardness at equivalent compression force - Lower ejection force at equivalent compression force - Less impact on disintegration times - Performance varies less with blending time or lubricant level - In ODT's (orally dispersible tablets) to avoid metallic taste caused by Magnesium Stearate 	<p>Especially in combination with organic salts of API, API with Carbonyl-Carboxyl groups and API with Sulfogroups:</p> <p>Miconazol, Triamcinolon, Albuterol Sulfate, Pravastatin-Na, Fosinopril-Na, Acidum salicylicum, Amiodipine, Cefaclor, Clarithromycin, Diclofenac, Donepezil-HCl, Doxazosin, Felodipine, Metoprololsuccinat, Fexofendadine, Ibuprofen, Ketorolac, Levofloxacin, Metaxalone, Nifedipine, Ramipril, Trandolapril</p>

Mannitol SANAQ® DC

Mannitol Pellets - Ph. Eur., USP-NF

Neutral starter core for pellet formulations

Type	µm	mesh approx.	Main Application
Mannitol 300	212-500	35-70	Water soluble starter core designed for drug layering and coating as alternative to other starter cores.
Mannitol 400	100-500	35-150	
			Controlled and narrow particle size distribution for a reproducible dissolution behavior.