



**Modern  
India's  
Leading  
Excipients  
Manufacturer**

accent microcell

# Ground To Glory

## ABOUT

Incorporated in the year 2001 with a vision to add value to the healthcare industry, we've come a long way to becoming the trusted partner of globally renowned brands stationed in 75+ countries.

If there was one particular attribute that we had to credit for this success, It's the 'no compromise' approach that is imbibed in our DNA. Along with that, the consistent need to innovate and evaluate our range of products, technology, and processes with our in-house 'Brain Squad' is something that keeps us ahead of the curve.

We strive to develop, produce, and supply the highest quality excipients that are used across Nutraceutical, Pharmaceutical, Food, Cosmetic, and other industries.



## our humanitarian Approach

### OUR PHILOSOPHY

Although being a corporate entity, we take pride in the human-centric approach that is firmly anchored in our beliefs and provides us with guidance in our daily work. To us, it's the people that matter; to us, it's the C.A.R.E. that matters!

Courage  
Assertiveness  
Righteousness  
Empathy

# Making The Presence Felt Across The Globe



## Certificates & Grades



USP/NF, EP, JP, BP, IP, Standardised Grades

# Tailor-Made Solution For Packing & Shipping

For our world-class products, we ensure safe worldwide shipments for undiluted applications. To make this possible, the containers are stored in state-of-the-art packaging materials that are kept in a temperature-controlled facility. We also provide customized packaging options for special-case requirements.

20-25 Kg pack sizes available with an option of 4 types containers:

Pallet Options (for 1 & 2):  
Heat Treated Wood Pallets  
Plastic Pallets



1. Paper Bags



2. Corrugated Boxes



3. HDPE Drums



4. Fibre Drums

All above packaging options are with LDPE inner liner.

## Container Stuffing

For us, container stuffing isn't just a matter of placement but a scientific process done with careful planning. We also take into consideration the de-stuffing process at the other end of the journey; as a part of our commitment to an unmatched service experience.



We provide professional and efficient container stuffing services to all our global clients according to the table below:

Sr. No.	Packing Type	20' Container				40' Container				
		No. of Bags/Box/ Drum	Pallets in No.	Quantity (KG) in Each Pallet	Total QTY (KG)	No. of Bags/Box/ Drum	Pallets in No.	Quantity (KG) in Each Pallet	Total QTY (KG)	
1	Paper Bag (20KG)	500	20	500	10000	1000	40	500	20000	
						1200	40	600	24000	
2	Carton Box (20KG)	270	10	5400	9000	540	20	10800	18000	
		180	10	3600		360	20	7200		
3	Carton Box (25KG)	360	20	450	9000	720	40	450	18000	
4	Fibre Box (25KG)	160	10	400	6000	640	40	400	16000	
		80	10	200						
5	HDPE Drum (25KG)	160	10	400	6000	640	40	400	16000	
		80	10	200						
6	Euro Pallet loading in bags						240	10	480	20000
							760	38	400	

## Products

Our innovative and highly functional excipients enable our customers to develop unique, cost effective, and fast-time-to-market formulations.

### accel

- Microcrystalline Cellulose (MCC) - Spray Dried/Spin Flash Dried
- Microcrystalline Cellulose Spheres (MCC Spheres)
- Silicified Microcrystalline Cellulose (SMCC)
- Powdered Cellulose (PC)
- Microcrystalline Cellulose with Carboxy Methyl Cellulose (RC)

### acrocell

- Croscarmellose Sodium (CCS)

### maccel

- Magnesium Stearate (Mg. St.)

Refer to Annexures in the end for technical info

# Products For Pharmaceuticals & Nutraceuticals

Cellulose-based excipients are widely used in pharmaceutical and nutraceutical industries due to their unique physiochemical properties. Microcrystalline cellulose is commonly used as a diluent or binder. Additionally, powdered cellulose serves as a bulking agent and can also be used as a binder, disintegrant, or lubricant.

These excipients offer several benefits, including bio-compatibility, ease of manufacturing, and cost-effectiveness, making them popular choice for a wide range of pharmaceutical and nutraceutical formulations.

accel

## Microcrystalline Cellulose (MCC)

Multi-Function Excipient

Microcrystalline Cellulose is a refined wood pulp, Finest element for tableting because of its purity. Used as an alternative to Carboxymethyl Cellulose and Lactose. Most commonly used in vitamin supplements & tablets.

### accel 101

- Free flowing, ideal for wet granulation
- For Wet granulation, extrusion, spheronization

### accel 102-102HD

- Larger size, for direct compression
- Better flow, improve flow properties of crystalline API's, proper disintegration

### accel 103

- Low moisture content, free flowing
- For moisture sensitive API's compatible with crystalline materials

### accel 105

- Finest size
- Direct compression of crystalline API's ideal for dry granulations, and wet granulations

### accel 112

- Coarser particles, beneficial for direct compression, lower in moisture content
- Direct compression of high moisture sensitive drugs

### accel 113

- Fine particle size, low moisture content
- For better granulation of moisture sensitive drug, roller compaction and dry granulation

### accel 200

- Larger particle size, better flow, good compressibility
- Beneficial in weight variation, and improve content uniformity

### accel 301

- High density particles
- High density, better flow, weight, uniformity, better capsule filling

For technical specifications, refer to Annexure #1 on page 23.

## acrocell

# Croscarmellose Sodium (CCS)

Super Disintegrant

CCS, is sodium salt of cross-linked polymer of Carboxy Methyl Cellulose. It appears as white, fibrous, free-flowing powder. With Acrocell, tablet may disintegrate appropriately, ultimately providing good dissolution and active absorption/ desired bioavailability.

### acrocell

- Beneficial for low concentration
- Desired disintegration of tablet
- Capillary action/ wicking action

### acrocell LM

- Better disintegration
- Ideal for low moisture sensitive drugs

For technical specifications, refer to Annexure #3 on page 25.

accel

# Silicified Microcrystalline Cellulose (SMCC)

High-Function Excipient

SMCC is a co-processed blend of Microcrystalline Cellulose (MCC) and Colloidal Silicon Dioxide (5102) by spray drying technology. It brings better flowability to MCC's excellent compaction. It has dual characteristics of brittle fracture as well as plastic deformation; leading to superior binding properties. It can even replace granulations, while reducing no. of required excipients.

## accel SMCC 50

- High intrinsic flow
- Enhanced lubrication efficiency
- Superior binding properties
- Enhance blending efficiency
- Ideal for capsule manufacturing
- Improved properties like weight uniformity, friability, disintegrations, etc.

## accel SMCC 50 LD

- Low density
- Better for low dose drug
- Flow Improvement of crystalline blends

## accel SMCC-90 & 90 HD

- Excellent compactibility
- Desired flow properties
- Good flow to direct compression API'S
- Increase production capacity
- Easy for dry bleeding in capsule
- Improved blending properties

## accel SMCC 90LM

- Low moisture content, better compressibility of low moisture sensitive drugs, direct compression

For technical specifications, refer to Annexure #4 on page 26.

accel

# Microcrystalline Cellulose Spheres (MCC Spheres)

Inert Carriers

MCC spheres are carriers for potential APIs and nutraceuticals for targeted drug delivery system. They can be filled into capsules or compacted into tablets, while the tight particle size distribution maximise content uniformity.

## CHARACTERISTICS

- Spherical In Shape
- 100% Cellulose Spheres
- Low Moisture
- Feasible For Coating in FRP
- High Surface Area
- Uniform Coating of API
- Better compressibility

## PRODUCTS

- Accel MCC Spheres 100
- Accel MCC Spheres 200
- Accel MCC Spheres 350
- Accel MCC Spheres 500
- Accel MCC Spheres 700
- Accel MCC Spheres 1000

For technical specifications, refer to Annexure #5 on page 27.

accel

# Powdered Cellulose (PC)

Multi-Function Fiber

Powdered Cellulose or Alpha Cellulose is a purified, mechanically disintegrated cellulose prepared from alpha-cellulose of fibrous plant materials. It is an odorless, tasteless, hydrophobic powder of various particle sizes, and forms - from flaky & coarse to fluffy & free flowing.

## CHARACTERISTICS

- Tablet diluent and filler in two-piece
- Acceptable compression properties
- Hard capsules
- Reduce the sedimentation rate of oily suspension fills
- A bulking agent
- Suspending agent in aqueous suspensions
- To increase the physical size of the dosage form
- Good for extrusion/spheronization

For technical specifications, refer to Annexure #2 on page 24.

maccel

# Magnesium Stearate (MS)

Lubricant

MS acts as a lubricant, it provides a free flow to the blend throughout the manufacturing process. Thus speeding up production. It also prevents molecular clumping which ensures accurate dosage form.

## CHARACTERISTICS

- High surface area
- High whiteness
- Better lubricity
- Better improvement of flow in moisture sensitive and crystalline API's

For technical specifications, refer to Annexure #6 on page 28.

accel RC

# Microcrystalline Cellulose with Carboxy Methyl Cellulose

Rheology Modifier

Desired viscosity modifier in suspensions as well as emulsions formulations

## CHARACTERISTICS

- Viscosity Modifier
- Stabilizer

## PRODUCTS

- RC 581
- RC 591

For technical specifications, refer to Annexure #7 on page 29.

Cellulose-based excipients find applications in the food, bakery, and dairy industries as well.

MCC and Powdered Cellulose are used as bulking agents and fiber sources in baked goods. These cellulose-based excipients provide functional benefits such as improved texture, mouth-feel, and shelf-life in food products.

accel

## Microcrystalline Cellulose (MCC)

Multi-Function Excipient

Microcrystalline Cellulose is refined wood pulp, it is a natural fiber, white, odorless and tasteless powder composed of free-flowing extremely fine particles. It can be used to enhance food products such as meats, bakery items, dairy, etc...

accel 105

- Low particle size
- Useful as a gelling agent

For technical specifications, refer to Annexure #1 on page 23.

accel

## Powdered Cellulose (PC)

Multi-Function Excipient

Powdered Cellulose or Alpha Cellulose is a purified, mechanically disintegrated cellulose prepared from alpha-cellulose of fibrous plant materials. It is an odorless, tasteless, hydrophobic powder of various particle sizes, and forms. It is an inert substance, is not degraded during digestion and has no appreciable absorption and is useful to provide dietary bulk.

### CHARACTERISTICS

- Anticaking Agent
- Used as a Binder
- Used as a Texturizer
- Works as a dietary fiber
- Used to control calorie intake
- Used to provide firmness

For technical specifications, refer to Annexure #2 on page 24.

accel

# Microcrystalline Cellulose with Carboxy Methyl Cellulose (RC)

Rheology Modifier

Desired viscosity modifier in suspensions as well as emulsions formulations

## CHARACTERISTICS

- Viscosity Modifier
- Stabilizer

## PRODUCTS

- RC 581
- RC 591

For technical specifications, refer to Annexure #7 on page 29.



Cellulose-based excipients such as MCC, SMCC, and Powdered Cellulose are used in cosmeceuticals and personal care products as stabilizers, emulsifiers, and thickening agents. MCC and Powdered Cellulose are used as exfoliating agents and absorbents while SMCC is used as a film-forming agent. These excipients provide various functional benefits in cosmetics and personal care products such as improved texture, spreadability, and stability.

accel

## Microcrystalline Cellulose (MCC)

Viscosity Modifier

Microcrystalline Cellulose is derived from cellulose, a natural polymer found in plant cell walls. It is used as a bulking agent, stabilizer, texture enhancer, and oil-absorbing agent in various formulations. MCC helps enhance the spreadability of creams, lotions, and powders.

accel 101

- Free flowing, ideal for wet granulation
- Works as a diluent

accel 102

- Larger particle size, ideal for scrubbing
- Works as a diluent

accel 103

- Finest particle size
- Ideal for gelling

For technical specifications, refer to Annexure #1 on page 23.

accel

## Powdered Cellulose (PC)

Multi-Function Fibre

Powdered Cellulose is a finely ground form of cellulose. In cosmetics and personal care products, it is used as an absorbent, texturizer, and thickening agent. Powdered Cellulose helps improve product consistency, provides a smooth feel, and enhances the spreadability of products.

## CHARACTERISTICS

- Works as a great absorbent
- Best thickener than other synthetics
- Can be used as a texturizer

- Is natural and non-irritating
- Can be used as a bulking agent
- Has good compatibility

For technical specifications, refer to Annexure #2 on page 24.

accel

# Silicified Microcrystalline Cellulose (SMCC)

Mattifying Agent

SMCC is a co-processed blend of Microcrystalline Cellulose (MCC) and Colloidal Silicon Dioxide (SiO<sub>2</sub>). It is like a superior version of MCC. The addition of silicon dioxide provides improved moisture resistance and increased compatibility with other ingredients.

## CHARACTERISTICS

- Great balance of compaction & flow
- Useful as a mattifying agent
- Helps increase stability
- Improves texture of formulation & skin
- 

## PRODUCTS

- Accel SMCC 50
- Accel SMCC 90
- Accel SMCC HD 90

For technical specifications, refer to Annexure #4 on page 26.

accel

# Microcrystalline Cellulose with Carboxy Methyl Cellulose (RC)

Rheology Modifier

Desired viscosity modifier in suspensions as well as emulsions formulations

## CHARACTERISTICS

- Viscosity Modifier
- Stabilizer

## PRODUCTS

- RC 581
- RC 591

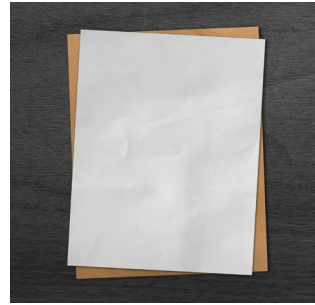
For technical specifications, refer to Annexure #7 on page 29.

# Products For Textile, Leather, Paper And Boards

accel

## Powdered Cellulose (PC)

Multi-Function Fibre



Powdered Cellulose or Alpha Cellulose is a purified, mechanically disintegrated cellulose prepared from alpha-cellulose of fibrous plant materials. It is an odorless, tasteless, hydrophobic powder of various particle sizes, and forms - from flaky & coarse to fluffy & free flowing.

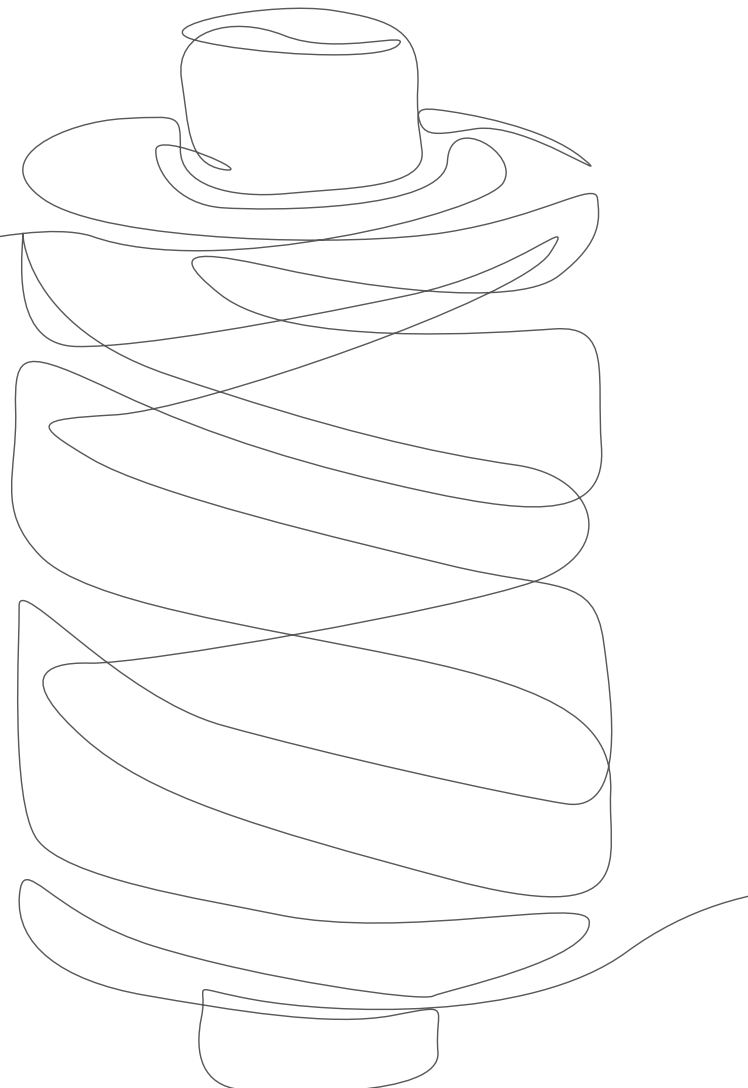
### APPLICATIONS (TEXTILE & LEATHER)

- Used as a sizing, levelling, and thickening agent
- Used as a hypoallergen
- Used to inhibit the growth of bacteria
- Best for making medical clothing, smooth, and soft clothing
- Can withstand climate changes
- Has long tenacity

### APPLICATIONS (PAPER & BOARDS)

- Used as an antisticking agent
- Used as a natural filler
- Used to improve surface coating, ink absorption and print quality
- Used to enhance Texture & Bulk
- Is a naturally derived, sustainable material

For technical specifications, refer to Annexure #2 on page 24.



## Products For

# Paints, Ceramics, Construction & Cements

accel

## Microcrystalline Cellulose (MCC)

Multi-Function Excipient



Microcrystalline Cellulose is a refined wood pulp, derived from cellulose. It is manufactured by treating cellulose with mineral acids to break it down into small crystalline particles.

### APPLICATIONS (PAINTS & CERAMICS)

- Used as a rheology modifier to control viscosity & flow
- Used as an opacifier to improve whiteness
- Used to improve durability and scrub resistance
- Used to improve uniformity and adhesion
- Used as a plasticizer in ceramics to control shape

### APPLICATIONS (CONSTRUCTION & CEMENT)

- Used as a rheology modifier to control viscosity & mixability of the materials
- Used to control water retention properties to improve workability and hydration
- Used to improve fiber reinforcement and control mechanical properties of cement-based materials
- Used as a micro-filler
- Used to control durability of materials

### PRODUCTS

- Accel MCC 105
- Accel MCC 102
- Accel MCC 101

accel

## Microcrystalline Cellulose with Carboxy Methyl Cellulose (RC)

Rheology Modifier

Desired viscosity modifier in suspensions as well as emulsions formulations

### CHARACTERISTICS

- Viscosity Modifier
- Stabilizer

### PRODUCTS

- **RC 581**
- RC 591

For technical specifications, refer to Annexure #7 on page 29.

For technical specifications, refer to Annexure #1 on page 23.

# Products For Welding Electrodes

accel

## Microcrystalline Cellulose (MCC)

Coating Agent



Microcrystalline Cellulose is a refined wood pulp. It is primarily used as a coating agent to electrodes. It improves their welding properties depending upon the type of coating.

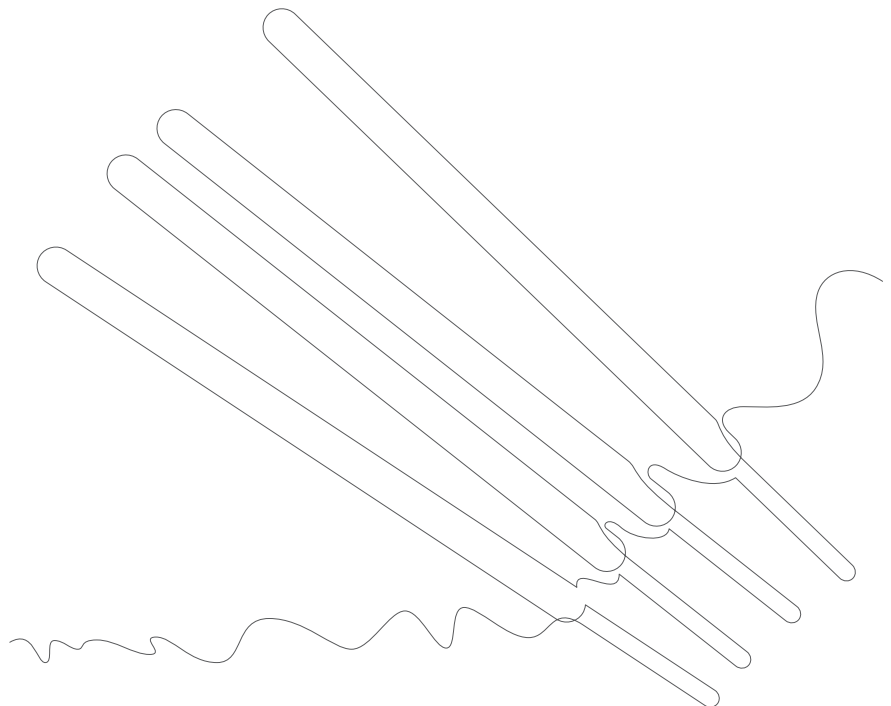
### BENEFITS

- Useful in Metal Arc welding and High Arc Voltage
- Deep penetration welding in any position
- Light amount of slag
- Welding in vertical down position
- Circumferential welds on pipelines

### PRODUCTS

- Accel MCC 101
- Accel MCC 102

For technical specifications, refer to Annexure #2 on page 24.



# Products For Filtration

accel

## Microcrystalline Cellulose (MCC)

Filtration Media



Microcrystalline Cellulose is a refined wood pulp. It enhances filtration efficiency, captures suspended solids, and improves cake formation, making it valuable for liquid and air filtration. Ideal for filtration of all types of organic solutions, brine, edible oils, as well as galvanic baths.

### BENEFITS

- A reliable depositing media
- Economical filter aids
- Excellent separating ability
- Used as membrane support material

### PRODUCTS

- Accel MCC 101
- Accel MCC 102

For technical specifications, refer to Annexure #1 on page 23.



# Products For Rubber

accel

## Microcrystalline Cellulose (MCC)

Green Reinforcing Filler



Microcrystalline Cellulose is a refined wood pulp. It improves the mechanical properties of rubber products. It is widely utilized in applications such as tires, conveyor belts, seals, and various rubber-molded products.

### BENEFITS

- Used as reinforcing filler to improve tensile strength, tear & abrasion resistance
- Reduce the energy required for dispersion
- Reduce internal temperature during
- Control viscosity, breathability and stability
- Improve bonding and adhesion to other materials
- Improve homogeneity and uniformity

### PRODUCTS

- Accel MCC 101
- Accel MCC 102

For technical specifications, refer to Annexure #1 on page 23.



# Products For Plastics

accel

## Microcrystalline Cellulose (MCC)

Multi Function Excipient



Microcrystalline Cellulose is a refined wood pulp. It is a versatile additive used as a filler, reinforcing agent, and processing aid in plastic formulations, resulting in stronger and more stable plastic products.

### BENEFITS

- Staring materials to bio- plastics
- Thickening to high viscous materials
- Improve ease of moulding
- Antiadherant to the wall of moulds
- Film- forming agent
- Improves stiffness and durability
- Enhance thermal stability

### PRODUCTS

- Accel MCC 101
- Accel MCC 102

For technical specifications, refer to Annexure #1 on page 23.



# Annexure

accel

## Microcrystalline Cellulose (MCC)

Multi-Function Excipient

Spray Dryer Grade	Particle Size Distribution			Sieve Analysis (% Retention)			Bulk Density (gm/ml)	LOD (%)	DOP
	D10 (µm)	D50 (µm)	D90 (µm)	60 Mesh	200 Mesh	100 Mesh			
Accel 101	NMT 30	40-60	NLT 80	< 1.0%	< 30.0%		0.27 - 0.34	NMT 5.0%	NMT 350
Accel 102	NMT 45	70-100	NLT 140	< 8.0%	> 45.0%		0.26 - 0.34	NMT 5.0%	NMT 350
Accel 102 HD	NMT 45	70-100	NLT 140	< 8.0%	> 45.0%		0.30 - 0.36	NMT 5.0%	NMT 350
Accel 103	NMT 30	40-60	NLT 80	< 1.0%	< 30.0%		0.26 - 0.34	NMT 5.0%	NMT 350
Accel 105	NMT 10	10-30	NLT 37	NMT 10.0% ON 400 Mesh			0.20 - 0.30	NMT 5.0%	NMT 350
Accel 112	NMT 45	70-100	NLT 140	< 8.0%	> 45.0%		0.26 - 0.34	NMT 1.5%	NMT 350
Accel 113	NMT 30	40-60	NLT 80	< 1.0%	< 30.0%		0.26 - 0.34	NMT 5.0%	NMT 350
Accel 200	NMT 70	150-200	NLT 260	> 10.0%		> 50.0%	0.31 - 0.39	NMT 5.0%	NMT 350
Accel 301	NMT 30	40-60	NLT 80	< 1.0%	< 30.0%		0.34 - 0.45	NMT 5.0%	NMT 350
Accel 302	NMT 45	70-100	NLT 140	< 8.0%	> 45.0%		0.35 - 0.45	NMT 5.0%	NMT 350
Accel 12	NMT 45	70-100	NLT 140	38 Mesh	94 Mesh	300 Mesh	0.26 - 0.40	NMT 5.0%	NMT 350
				< 1.0%	< 50.0%	> 70.0%			

### Microbial Limits

Total Viable Aerobic Count	NMT 1000 cfu/g
Total Yeast & Mould Count	NMT 100 cfu/g
Staphylococcus Aureus	Absent
Escherichia Coli	Absent
Pseudomonas Aeruginosa	Absent
Salmonella Species	Absent

### DESCRIPTION

White or almost white, fine or granular crystalline powder, practically insoluble in water, in dilute acids, in most of organic solvents and in dilute NaOH solution (1 to 20).

Details	
Identification A (USP/BP), B (EP), 1 (JP), (Zinc Chloride Test)	Conforms
Identification B (Degree Of Polymerization)	NMT 350
Identification 2	Conforms
Solubility ( Coppertetramine solution)	Dissolves
Ph	5.0 - 7.5
Conductivity	NMT 75 $\mu$ S.CM-1
Water - Soluble Substance	NMT 0.25%
Ether - Soluble Substance	NMT 0.05%
Loss On Drying	NMT 7.0%
Heavy Metals	NMT 10 PPM
Residue On Ignition/Sulphated Ash	NMT 0.1%
Bulk Density	0.27 to 0.34 g/ml
Assay (Dried)	97.0% to 102.0%
Sieve Analysis (% Retention)	
60 Mesh	$\leq$ 1.0%
200 Mesh	$\leq$ 30.0%
Particle Size Distribution	
PSD D10	$\leq$ 30 $\mu$
PSD D10	40 - 60 $\mu$
PSD D10	$\geq$ 80 $\mu$
Black Particle	NMT 80 Per 600 cm <sup>2</sup>

## NOTE

Technical specification mentioned here are for the Spray Dried Grade MCC; Accel 101.

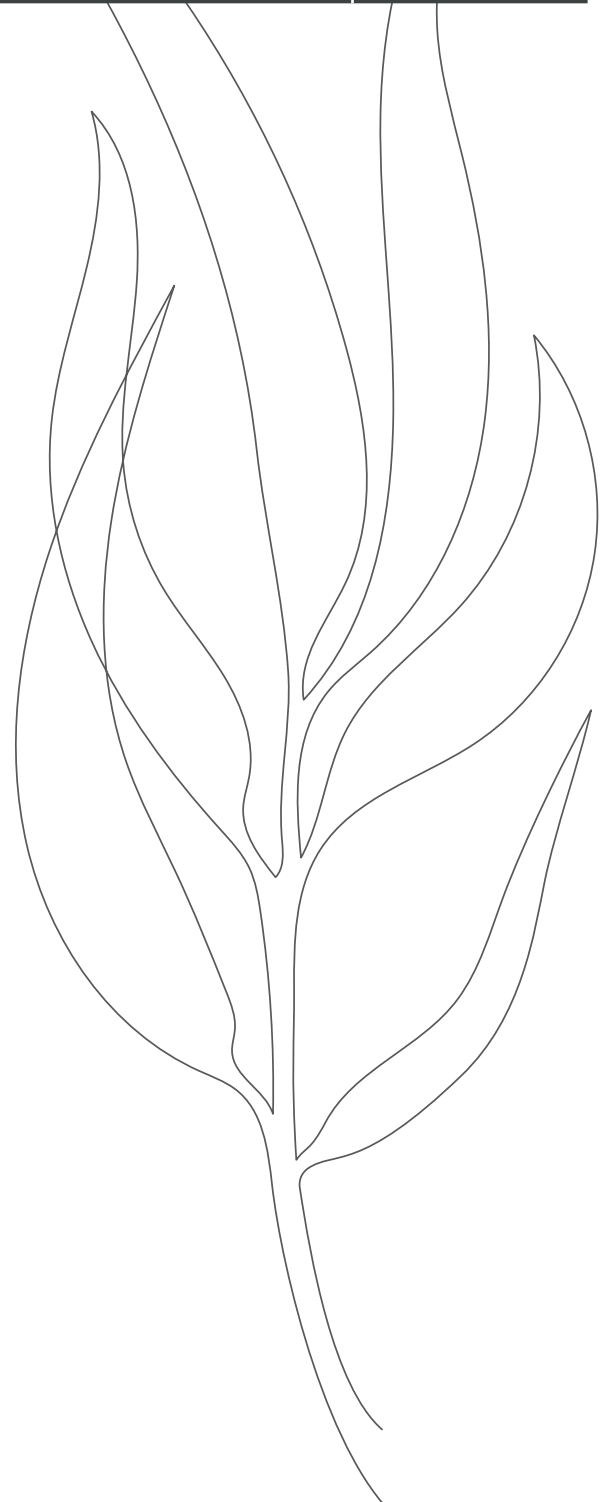
Contact us for details on NSD Grades and/or other Accel Grades.

# Powdered Cellulose (PC)

Multi-Function Fibre

Details	
Description	White or almost white, exhibits degrees of fineness ranging from free flowing dense powder to a coarse, fluffy, non-flowing material.
Identification A,1 (Zinc Chloride Test)	Confirms
Identification B (Degree of Polymerization)	NLT 440
Identification 2, Suspension Test	Confirms
pH (10% Suspension In Water)	5.0-7.5
Conductivity	NMT 75 mS.cm-1
Water -Soluble Substance	NMT 1.5%
Ether Soluble Substance	NMT 0.15%
Heavy Metals	NMT 10 PPM
Arsenic	NMT 3 PPM
Lead	NMT 2 PPM
Mercury	NMT 1 PPM
Cadmium	NMT 1 PPM
Loss On Drying (105°C, 3 Hours)	NMT 6.5%
Sulphated Ash	NMT 0.3%
Assay	NMT 92%
Starch	Not Detectable
Bulk Density	For Information
Sieve Analysis (% Retention)	
> 250 µm	Max. 1%
> 75 µm	Max. 30%
> 32 µm	Min. 50%

Microbial Limits	
Total Viable Aerobic Count	NMT 1000 cfu/g
Total Yeast & Mould Count	NMT 100 cfu/g
Staphylococcus Aureus	Absent
Escherichia Coli	Absent
Pseudomonas Aeruginosa	Absent
Salmonella Species	Absent



# Croscarmellose Sodium (CCS)

Rapid Disintegrant

Grade	Raw Material	Non GMO	Loss On Drying	Solvent Content
CCS Regular	Wood Pulp		Max. 10%	Max. 1% MeOH
CCS Premium	Wood Pulp	✓	Max. 10%	Max. 0.5% EtOH
CCS Premium LM	Wood Pulp	✓	Max. 6%	Max. 0.01% EtOH

Microbial Limits	
Total Viable Aerobic Count	NMT 1000 cfu/g
Total Yeast & Mould Count	NMT 100 cfu/g
Staphylococcus Aureus	Absent
Escherichia Coli	Absent
Pseudomonas Aeruginosa	Absent
Salmonella Species	Absent

Details	
Description	White or Greyish White Powder
Identification (A,B,C,) (1,2,3)	Confirms
Degree Of Substitution	0.60 to 0.85
Loss On Drying	NMT 10.0%
Ph	5.0-7.0
Content of Water - Soluble Sunstance	NMT 10.0%
Residue On Ignition/Sulphated Ash	14.0% to 28.0%
Settling Volume	10.0 to 30.0 ml
Sodium Chloride & Sodium Glycolate	NMT 0.5%
Heavy Metals	NMT 10 PPM
Iron	NMT 10 PPM
Particle Size (% Passes Through)	
100 Mesh (CCS-Regular)	NLT 98.0%
200 Mesh (CCS-Premium)	NLT 98.0%

# Silicified Microcrystalline Cellulose (SMCC)

High-Function Excipient

Spray Dryer Grade	APS µm	Bulk Density (gm/ml)	Property
Accel SMCC 50	65	0.25-0.37	Optimal Compaction & Decent Flow
Accel SMCC 50 LD	50	0.20-0.30	Best In Class Binder
Accel SMCC 90	125	0.25-0.37	Balance Of Flow & Compaction
Accel SMCC HD 90	125	0.38-0.50	Optimal Flow & Consolidation Best Disintegration Times Low Moisture Grade Available
Accel SMCC 90 LM	125	0.27-0.39	Equivalent To SMCC 90, With Lower Moisture Content (<3%)

Microbial Limits	
Total Viable Aerobic Count	Max. 1000 cfu/g
Total Yeast & Mould Count	Max. 100 cfu/g
Staphylococcus Aureus In 10g	Absent In 10g
Escherichia Coli In 10g	Absent In 10g
Pseudomonas Aeruginosa In 10g	Absent In 10g
Salmonella Species In 10g	Absent In 10g

## DESCRIPTION

White or almost white, fine or granular crystalline powder, practically insoluble in water, in dilute acids, in most of organic solvents and in dilute NaOH solution (1 to 20).

Details	
Identification Test A	IR Confirms a
Identification B, A,1 (Iodinated Zn)	Violet Blue Colour
Identification C,2 (NH4Mo)	Deep Yellow Colour
D,3 (SiO2 Disp. Uniformity Test)	Variance < 0.02%
Degree of Polymreization	NMT 350
Solubility (Ammoniacal Solution Of Copper Tetrammine)	Dissolves
pH	5.0-7.5
Conductivity	Max. 75 µS.cm-1
Ether - Soluble Substance	Max. 0.05%
Water - Soluble Substance	Max. 0.24% as
Heavy Metals	Max. 10 PPM
Loss Of Drying (105°C 3Hr.)	NMT 6.0%
Loss Of Drying (105°C 3Hr.) SMCC-90LM	NMT 3.0%
Residue On Ignition	1.80-2.20
Average Particle Size (90)	65 µ
PSD D10	20-50 µ
PSD D50	90-150 µ
PSD D90	190-300 µ
Average Particle Size (90 LM)	125 µ
Average Particle Size (50)	65 µ as
Average Particle Size (50 LD)	50 µ
Bulk Density (90)	0.250-0.370 g/ml
Bulk Density (90-LM)	0.250-0.390 g/ml
Bulk Density (50)	0.250-0.370 g/ml
Bulk Density (50-LD)	0.250-0.300 g/ml
Tapped Density	0.250-0.500 g/ml
Black Particle Count/600 cm2	NMT 08

# Microcrystalline Cellulose Spheres (MCC Spheres)

Grade	Size		Bulk Density (gm/ml)
	(Mesh)	(µm)	
Accel MCC Spheres 100	70-140	100-200	0.7-0.8
Accel MCC Spheres 200	45-70	200-355	0.8-0.9
Accel MCC Spheres 350	35-45	355-500	0.8-0.9
Accel MCC Spheres 500	25-35	500-710	0.8-0.9
Accel MCC Spheres 700	18-25	710-1000	0.8-0.9
Accel MCC Spheres 1000	14-18	1000-1400	0.8-1.0

Microbial Limits	
Total Viable Aerobic Count	NMT 1000 cfu/g As NF, EP, JP
Total Yeast & Mould Count	NMT 100 cfu/g As NF, EP, JP
Staphylococcus Aureus	Absent As NF, EP, JP
Escherichia Coli	Absent As NF, EP, JP
Pseudomonas Aeruginosa	Absent As NF, EP, JP
Salmonella Species	Absent As NF, EP, JP

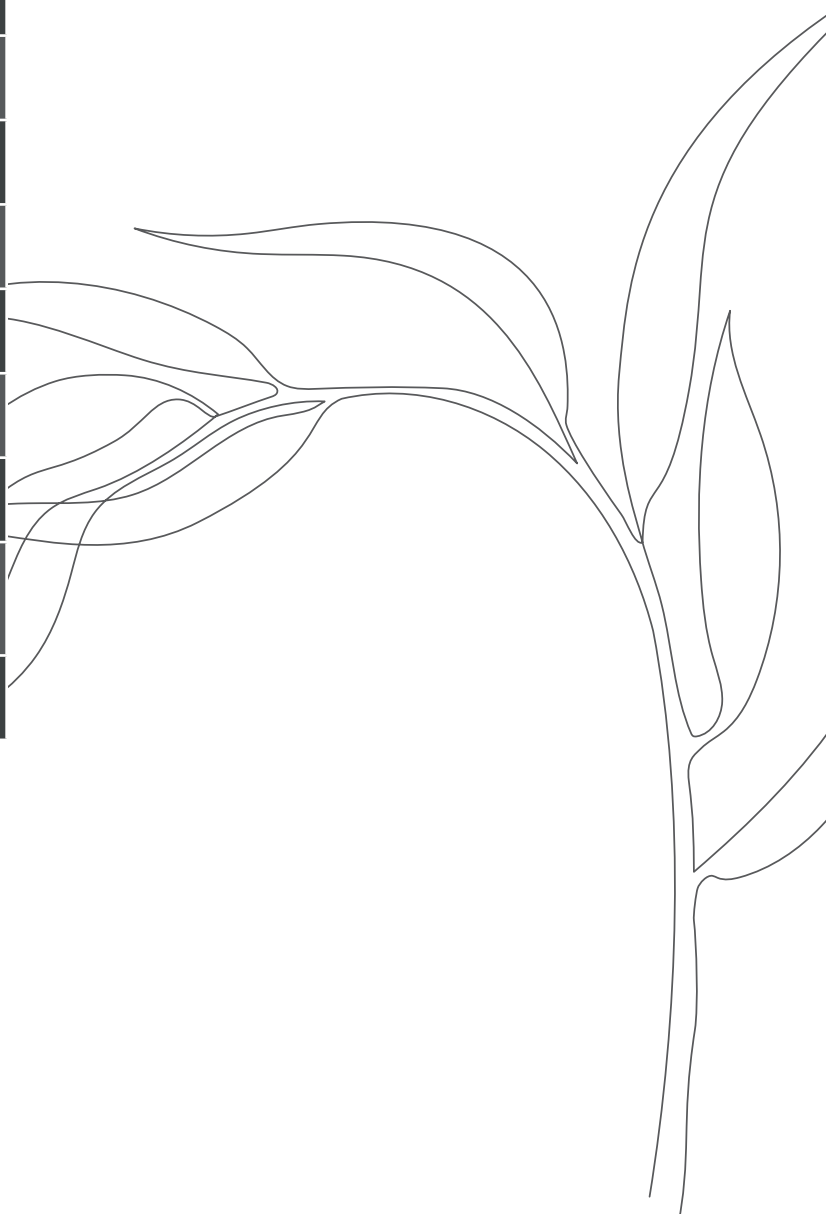
Details	
Description	White or almost white, fine or granular crystalline powder, practically insoluble in water, in dilute acids, in most of organic solvents and in dilute NaOH solution (1 to 20).
Identification A (USP/BP), B (EP), 1 (JP), (Zinc Chloride Test)	Matches As NF, EP, JP
Identification Test A (EP)	Matches As NF, EP, JP
Identification B (USP/BP), 3 (JP), C (EP) (Degree Of Polymerization)	NMT 350 As USP/NF, NF, EP, JP
Identification 2 (JP)	Matches As JP
Solubility (Coppertetramine Solution)	Matches As NF, EP, JP
pH	5.0-7.5 As NF, EP, JP
Conductivity	NMT 75 µS.cm <sup>-1</sup> As NF, EP, JP
Water - Soluble Substance	NMT 0.25% As NF, EP, JP
Ether - Soluble Substance	NMT 0.05% As NF, EP, JP
Loss Of Drying	NMT 7.0% As NF, EP, JP
Heavy Metals	NMT 10 PPM As NF, EP, JP
Residue On Ignition/Sulphated Ash	NMT 0.1% As NF, EP, JP
Bulk Density	0.7 To 1.0 g/ml
Assay (Dried)	97.0% to 102.0%
Particle Size (70-140 Mesh)	100 To 200 µm
Particle Size (45-70 Mesh)	200 To 355 µm
Particle Size (35-45 Mesh)	355 To 500 µm
Particle Size (25-35 Mesh)	500 To 710 µm
Particle Size (18-25 Mesh)	710 To 1000 µm

# Magnesium Stearate (Mg.St.)

Lubricant

Description	White, Very Fine, Light Powder, Greasy To The Touch, Practically Insoluble In Water & In Anhydrous Ethanol.
Identification A (Freezing Point)	Matches As Ph.Eur., BP
Identification B (Acid Value)	195 To 210 As Ph.Eur., BP
Identification A (USP), D (BP, Ph.Eur)	Matches As USP, BP, Ph.Eur.
Identification B (USP), C (BP, Ph.Eur)	Matches As USP, BP, Ph.Eur.
Acidity or Alkalinity	Matches As USP, BP, Ph.Eur.
Chloride	NMT 0.1% As USP/NF, Ph.Eur., BP
Sulphates	NMT 0.5% As USP/NF, Ph.Eur., BP
Cadmium	NMT 3 PPM As USP/NF, Ph.Eur., BP
Lead	NMT 10 PPM As USP/NF, Ph.Eur., BP
Nickel	NMT 5 PPM As USP/NF, Ph.Eur., BP
LOD	NMT 6% As USP/NF, Ph.Eur., BP
Assay Of Magnesium	4.0% To 5.0% As USP/NF, Ph.Eur., BP
Fatty Acid Composition	NLT 40% Of Stearic Acid & NLT 90% of Sum Of Stearic Acids & Palmitic Acid As USP/NF, Ph.Eur., BP
Bulk Density	0.22 To 0.35 g/ml

Microbial Limits	
Total Viable Aerobic Count	NMT 1000 cfu/g As USP/NF, Ph.Eur., BP
Total Yeast & Mould Count	NMT 100 cfu/g As USP/NF, Ph.Eur., BP
Escherichia Coli	Absent As USP/NF
Salmonella Species	Absent As USP/NF



accel

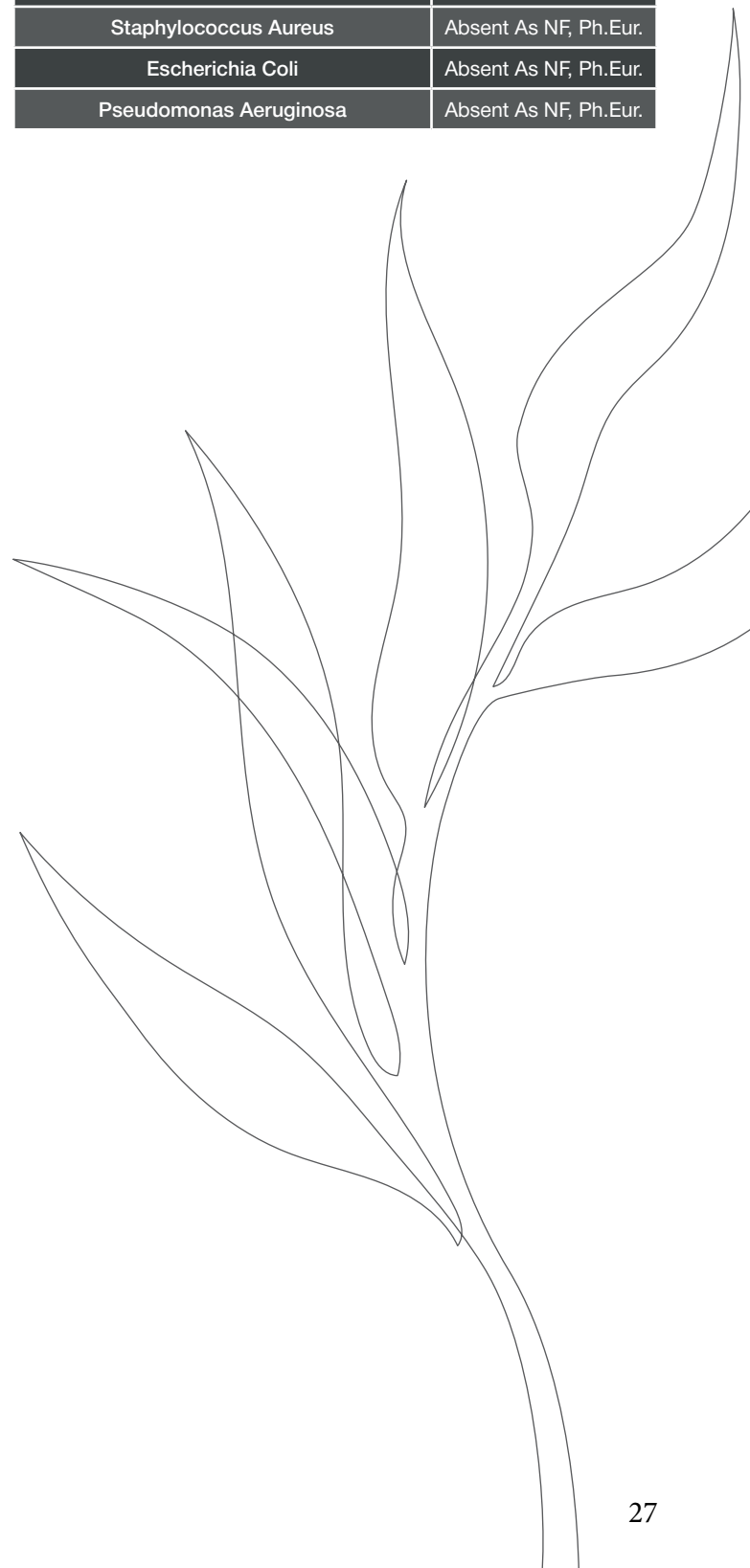
# Microcrystalline Cellulose with Carboxy Methyl Cellulose (RC)

Stabilizer & Suspender

Grade	Particular Size Distribution	Sodium Content	Viscosity (dynamic) 1.2%W/V Aqueous Dispersion
Accel RC 611	40.1% Retained On A #60 Mesh & 450% Retained On A #325 Mesh	0.012	50-118 mPa s (50-118 cP)
Accel RC 581	40.1% Retained On A #60 Mesh & 435% Retained On A #200 Mesh	0.008	72-168 mPa s (72-168 cP)
Accel RC 591	40.1% Retained On A #60 Mesh & 445% Retained On A #325 Mesh	0.008	39-91 mPa s (39-91 cP)

Microbial Limits	
Total Viable Aerobic Count	NMT 1000 cfu/g As NF, Ph.Eur.
Total Yeast & Mould Count	NMT 100 cfu/g As NF, Ph.Eur.
Staphylococcus Aureus	Absent As NF, Ph.Eur.
Escherichia Coli	Absent As NF, Ph.Eur.
Pseudomonas Aeruginosa	Absent As NF, Ph.Eur.

Details	
Description	Fine Powder, White To Pale Yellowish, Odorless
Pharmacopoeial Test Items	Specificaion
Identification	Matches As NF, Ph.Eur.
Clarity Of Solution	Matches As NF, Ph.Eur.
Solubility in Copper Tetramine	Positive
pH	6.0-8.0 As NF, Ph.Eur.
Loss On Drying	NMT 8.0% As NF, Ph.Eur.
Residue On Ignition	NMT 5.0% As NF, Ph.Eur.
Heavy Metals	NMT 10 ppm As NF, Ph.Eur.
Assay (On Dried Basis)	75-120%
Apparent Viscosity Of Nominal Value	60-140%





## OUR UNITS

**Unit 1 [excipients]** | 15km away from HO  
Survey No. 533/P, Paldi, Kankaj, Pirana Road, Ta.  
Daskroi, Dist. Ahmedabad-382425, Gujarat, India  
Phone: +91 2718 288001/288002

**Unit 2 [excipients]** | 250km away from HO  
Plot No. Z/59-60-63, Dahej-SEZ, Part-I, Ta. Vagra, Dist.  
Bharuch 392130, Gujarat, India  
Phone: +91 75758 05960

**Unit 3 [excipients]** | Village: Nayka,  
Taluka & District: Kheda – 387550, Gujarat, India.

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