

## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 101 – USP / Ph.Eur**

S. No.	TEST	SPECIFICATION
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents.
		For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour..
		B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 7.0%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11.	<b>Bulk Density, g/cc</b>	
	Untapped	0.28 to 0.34
12.	<b>Sieve Analysis</b>	
	Retention on 60 mesh	Not more than 1.0%
	Passes through 200 mesh	Not less than 70.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
Pseudomonas aeruginosa	Absent / g	

**Registered Office :**

# 229/1 & 90, 4th Floor,  
Kalyans Tulasiram Chambers,  
Madinaguda, Hyderabad - 49,  
Telangana State, India,  
Email : mktg.gm@sigachi.com,  
Customer Service +91 40 40114874-76

**Unit - 1 :**

Plot No. 20- 21,  
IDA Pasamailaram,  
Phase I, Medak Dist,  
Telangana State, India

**Unit - 2 :**

Plot No. Z-16, SEZ Unit,  
Dahej SEZ Part I,  
Bharuch Dist,  
Gujarat, India

**Unit - 3 :**

Plot No. 763/2,  
Jhagadia GIDC,  
Bharuch Dist,  
Gujarat, India

## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 102 – USP / Ph.Eur**

S. No.	TEST	SPECIFICATION
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents.
		For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour..
		B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 7.0%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11	<b>Bulk Density, g/cc</b>	
	Untapped	0.28 to 0.34
12	<b>Sieve Analysis</b>	
	Retention on 60 mesh	Not more than 8.0%
	Retention on 200 mesh	Not less than 45.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
	Pseudomonas aeruginosa	Absent / g

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Gujarat, India

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Jhagadia GIDC,  
Bharuch Dist,  
Gujarat, India

## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 112 – USP / Ph.Eur**

S. No.	TEST	SPECIFICATION
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents.
		For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour..
		B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 1.50%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>INHOUSE SPECIFICATION</b>		
11	<b>Bulk Density, g/cc</b>	
	Untapped	0.32 to 0.36
12	<b>Sieve Analysis</b>	
	Retention on 60 mesh	Not more than 8.0%
	Retention on 200 mesh	Not less than 45.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
Pseudomonas aeruginosa	Absent / g	

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Gujarat, India

## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 200 – USP / Ph.Eur**

S. No.	TEST	SPECIFICATION
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents. For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour.. B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 7.0%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11.	<b>Bulk Density, g/cc</b>	
	Untapped	0.30 to 0.36
12.	<b>Sieve Analysis</b>	
	Retention on 60 mesh	Not less than 10.0%
	Retention on 100 mesh	Not less than 50.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
	Pseudomonas aeruginosa	Absent / g

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## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 103 – USP / Ph.Eur**

S. No.	TEST	SPECIFICATION
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents. For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour.. B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 3.0%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11	<b>Bulk Density, g/cc</b>	
	Untapped	0.28 to 0.34
12	<b>Sieve Analysis</b>	
	Retention on 60 mesh	Not more than 1.0%
	Passes through 200 mesh	Not less than 70.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
	Pseudomonas aeruginosa	Absent / g

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## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 105 – USP / Ph.Eur**

S.No.	Tests	Specification
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents. For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour.. B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu S \cdot cm^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 7.0%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11	<b>Bulk Density, g/cc</b>	
	Untapped	0.25 to 0.30
12	<b>Sieve Analysis</b>	
	Retention on 60 mesh	Not more than 0.1%
	Retention on 400 mesh	Not more than 1.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
	Pseudomonas aeruginosa	Absent / g

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## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 301 – USP / Ph.Eur**

S.No.	Tests	Specification
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents.
		For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour..
		B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 7.0%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11	<b>Bulk Density, g/cc</b>	
	Untapped	0.34 to 0.45
12	<b>Sieve Analysis</b>	
	Retention on 60 mesh	Not more than 1.0%
	Passes through 200 mesh	Not less than 70.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
Pseudomonas aeruginosa	Absent / g	

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Gujarat, India

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Plot No. 763/2,  
Jhagadia GIDC,  
Bharuch Dist,  
Gujarat, India

## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 302 – USP / Ph.Eur**

S.No.	Tests	Specification
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents. For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour.. B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 7.0%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11	<b>Bulk Density, g/cc</b>	
	Untapped	0.34 to 0.45
12	<b>Sieve Analysis</b>	
	Retention on 60 mesh	Not more than 8.0%
	Retention on 200 mesh	Not less than 45.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
	Pseudomonas aeruginosa	Absent / g

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Gujarat, India



## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 12 – USP / Ph.Eur**

S.No.	Tests	Specification
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents. For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour.. B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 7.0%
7.	Residue on Ignition/ Sulphated Ash	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11	<b>Bulk Density, g/cc</b>	
	Untapped	0.29 to 0.36
12	<b>Sieve Analysis</b>	
	Retention on 40 mesh	Not more than 1.0%
	Retention on 100 mesh	Not more than 50.0%
	Retention on 300 mesh	Not less than 70.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
	Pseudomonas aeruginosa	Absent / g

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Gujarat, India

## SPECIFICATION

**Product : MICROCRYSTALLINE CELLULOSE : AceCel 14 – USP / Ph.Eur**

S.No.	Tests	Specification
1.	Description	Fine or granular, white or almost white powder. It consists of free-flowing and non fibrous particles.
2.	Solubility	For USP - Practically insoluble in sodium hydroxide solution (1 in 20) insoluble in water in dilute acids and in most organic solvents. For Ph.Eur - It dissolves completely leaving no residue with Ammonical Copper tetramine.
3.	Identification	A. The substance takes on a violet-blue colour.. B. The degree of polymerisation is not greater than 350.
4.	Conductivity	Not more than $75 \mu\text{S}\cdot\text{cm}^{-1}$
5.	pH (5 g in 40 ml water)	5.0 to 7.5
6.	Loss on drying	Not more than 1.50%
7.	Residue on Ignition	Not more than 0.10%
8.	Water Soluble Substance	Not more than 0.25%
9.	Ether-soluble substances	Not more than 0.05%
10.	Heavy Metals	Not more than 10 ppm
<b>IN HOUSE SPECIFICATION</b>		
11.	<b>Bulk Density, g/cc</b>	
	Untapped	0.34 to 0.45
12.	<b>Sieve Analysis</b>	
	Retention on 40 mesh	Not more than 1.0%
	Retention on 100 mesh	Not more than 50.0%
	Retention on 300 mesh	Not less than 70.0%
13.	<b>MICROBIAL LIMITS</b>	
	Total Aerobic Microbial Count	Not more than 1000 cfu/g
	Total combined molds & yeasts count	Not more than 100 cfu/g
	Escherichia Coli	Absent / g
	Salmonella species	Absent / 10g
	Staphylococcus aureus	Absent / g
	Pseudomonas aeruginosa	Absent / g

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