

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel 50M – 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
IN HOUSE SPECIFICATION		
11	Bulk Density	
	Untapped	0.28 to 0.34 g/cc
12	Sieve Analysis	
	Retention on 60 mesh	Not more than 1.0%
	Passes through 200 mesh	Not less than 70.0%
13	MICROBIAL LIMITS	
	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 : HiCel 90M – 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
IN HOUSE SPECIFICATION		
11	Bulk Density	
	Untapped	0.28 to 0.34 g/cc
12	Sieve Analysis	
	Retention on 60 mesh	Not more than 8.0%
	Retention on 200 mesh	Not less than 45.0%
13	MICROBIAL LIMITS	
	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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Bharuch Dist,
Gujarat, India

Unit - 3 :

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

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel XLM90 – 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/ 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
IN HOUSE SPECIFICATION		
11.	Bulk Density	
	Untapped	0.32 to 0.36 g/cc
12.	Sieve Analysis	
	Retention on 60 mesh	Not more than 8.0%
	Retention on 200 mesh	Not less than 45.0%
13.	MICROBIAL LIMITS	
	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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Unit - 3 :

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

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel LP200 – 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
IN HOUSE SPECIFICATION		
11.	Bulk Density	
	Untapped	0.30 to 0.36 g/cc
12.	Sieve Analysis	
	Retention on 60 mesh	Not less than 10.0%
	Retention on 100 mesh	Not less than 50.0%
13.	MICROBIAL LIMITS	
	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

Unit - 3 :

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

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel LM50 – 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 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
IN HOUSE SPECIFICATION		
11	Bulk Density	
	Untapped	0.28 to 0.34 g/cc
12	Sieve Analysis	
	Retention on 60 mesh	Not more than 1.0%
	Passes through 200 mesh	Not lesse than 70.0%
13	MICROBIAL LIMITS	
	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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Unit - 3 :

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Jhagadia GIDC,
Bharuch Dist,
Gujarat, India

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel 25M – 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
IN HOUSE SPECIFICATION		
11.	Bulk Density	
	Untapped	0.25 to 0.30 g/cc
12.	Sieve Analysis	
	Retention on 60 mesh	Not more than 0.1%
	Retention on 400 mesh	Not more than 1.0%
13.	MICROBIAL LIMITS	
	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 : HiCel XLM50 – 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/ 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
IN HOUSE SPECIFICATION		
11.	Bulk Density	
	Untapped	0.32 to 0.36 g/cc
12.	Sieve Analysis	
	Retention on 60 mesh	Not more than 1.0%
	Passes through 200 mesh	Not less than 70.0%
13.	MICROBIAL LIMITS	
	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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Unit - 3 :

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

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel HD50 – 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
IN HOUSE SPECIFICATION		
11.	Bulk Density	
	Untapped	0.34 to 0.45 g/cc
12.	Sieve Analysis	
	Retention on 60 mesh	Not more than 1.0%
	Passes through 200 mesh	Not less than 70.0%
13.	MICROBIAL LIMITS	
	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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Bharuch Dist,
Gujarat, India

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel HD90 – 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
IN HOUSE SPECIFICATION		
11	Bulk Density	
	Untapped	0.34 to 0.45 g/cc
12	Sieve Analysis	
	Retention on 60 mesh	Not more than 8.0%
	Retention on 200 mesh	Not less than 45.0%
13	MICROBIAL LIMITS	
	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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Unit - 3 :

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Bharuch Dist,
Gujarat, India

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel 12M – 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
IN HOUSE SPECIFICATION		
11.	Bulk Density	
	Untapped	0.34 to 0.45 g/cc
12.	Sieve Analysis	
	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.	MICROBIAL LIMITS	
	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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Bharuch Dist,
Gujarat, India

SPECIFICATION

Product : MICROCRYSTALLINE CELLULOSE : HiCel 14M – 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/ 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
INHOUSE SPECIFICATION		
11.	Bulk Density	
	Untapped	0.34 to 0.45 g/cc
12.	Sieve Analysis	
	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.	MICROBIAL LIMITS	
	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 : HiCel XLM200 – 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/ 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
IN HOUSE SPECIFICATION		
11.	Bulk Density	
	Untapped	0.30 to 0.38 g/cc
12.	Sieve Analysis	
	Retention on 60 mesh	Not less than 10.0%
	Retention on 100 mesh	Not less than 50.0%
13.	MICROBIAL LIMITS	
	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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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