



Ethylcellulose Polymer

AshaKote®

Ethylcellulose Aqueous Dispersion

Asha Cellulose (I) Pvt Ltd is the only company in the world to produce both the

Ethylcellulose Polymer and

Aqueous Ethylcellulose Dispersion





Indian Queries

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Global Queries

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Email: rshah@goodhopeinc.com

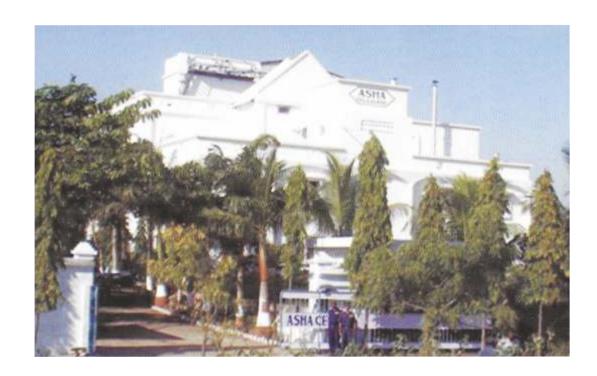






NOTES

ASHA Cellulose

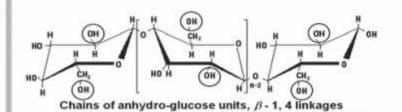


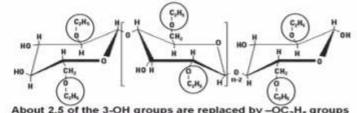
Asha Cellulose (I) Pvt. Ltd. is the first and only Indian company to manufacture and market Ethylcellulose and Ethylcellulose Aqueous Dispersion. With more than 25 years of experience in manufacturing Cellulose derivatives, Asha Cellulose consolidates its position in the market based on quality, business integrity, excellent customer service and reliability. The GMP certified facility is located in Valsad, in the state of Gujarat, in India. The company manufactures Industrial, Pharmaceutical and Electronic grade Ethylcellulose along with Ethylcellulose Aqueous Dispersion, making it the supplier of choice in the market.



Ashacel®

Ethylcellulose Polymer





Product type based on assay or extent of substitution Standard: 48.0 - 49.5%

Viscosity in a 5% solution of 80/20 Toluene/Ethanol at 25° C

ASHACEL® MP 100 Ethylcellulose

Trademark of Asha Cellulose

Approved for use in pharmaceutical applications. Compliant with USP/NF, BP, EP, JP, IP and FCC monographs

Pharmaceutical Application Overview

Product viscosity designation	Viscosity range cps ¹	% Ethoxy 48 - 49.5 M Type	CR	Micro- encapsulation	Tablet Coating	Granulation	Binder
4	3 - 5.5	Ashacel MP - 4	1				1
7	6 - 8	Ashacel MP - 7	1		1		1
10	9 - 11	Ashacel MP - 10	1		4	1	1
14	12.5 –15.5	Ashacel MP - 14	1		4	4	1
20	18 - 22	Ashacel MP - 20	1		1	1	1
45	41 - 49	Ashacel MP - 45		4		4	
50	45 - 55	Ashacel MP - 50		4		1	
100	90 - 110	Ashacel MP - 100		1			Ì

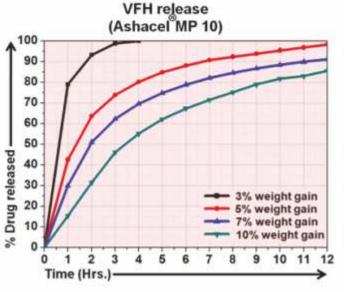
Regulatory Information

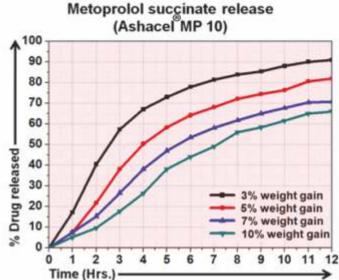
- Pharmacopoeial status.
- Limits and methods are listed on certificates of analysis.
- GMP certified facility by FDCA -Gujarat, India.
- USDMF registered.
- **EXCIPACT** certified.
- Kosher certified.
- Halal certified.
- ISO 9001:2015, ISO 14001:2015, & BS OHSAS 18001:2007 certified.
- 3 years shelf life from date of manufacturing.

Physicochemical Properties

- Insoluble in water.
- Soluble in common solvents: methonol, ethanol, isopropanol, methylene chloride, acetone.
- Film former (strong, flexible films).
- Binder (conventional coating techniques or granulation).
- Compatible with many plasticizers.
- Colorless, odorless, tasteless.
- Stable at pH 3 to 11.

Release Modulation: Coating Weight Gain





Dissolution Conditions:

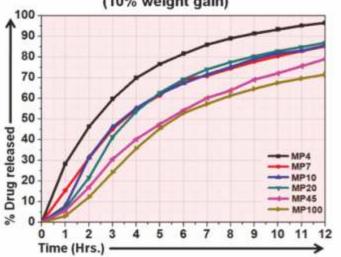
- → Medium: 900 ml of 0.1N HCl.
- → Apparatus: Paddle. → Speed: 50 rpm.

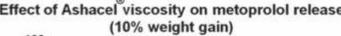
Dissolution Conditions:

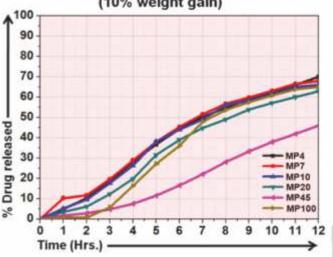
- → Medium: 900 ml of pH 1.2 buffer.
- → Apparatus: Paddle.
- → Speed: 50 rpm.

Release Modulation: Viscosity Effect

(10% weight gain)







Dissolution Conditions:

- → Medium: 900 ml of 0.1N HCl.
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Dissolution Conditions:

- → Medium: 900 ml of pH 1.2 buffer.
- → Apparatus: Paddle.
- → Speed: 50 rpm.

AshaKote®

Ethylcellulose Aqueous Dispersion

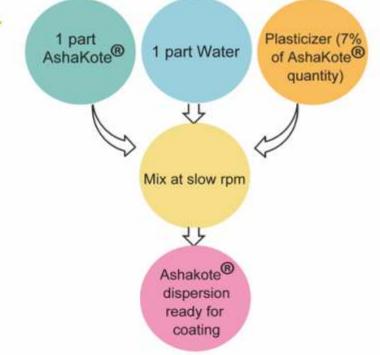
AshaKote[®] is 30% aqueous dispersion of Ethylcellulose, complying with Ethylcellulose Aqueous Dispersion USP NF monograph.

Benefits of AshaKote®

- Reduced coating process time.
- Environment friendly product.
- No residual solvent toxicity.
- Suitable for sustained release, tastemasking, and moisture barrier.
- pH independent release.
- No 'Fed state vs. Fasted state' issues.
- Lot of data in the form of research articles, and poster presentations already available.
- No ammonia system.
- Low viscosity.
- Non-tacky.
- Ease of cleaning

Product Specifications				
Test	Specification			
Identification	Pass			
pН	4.0 - 7.0			
Specific gravity	1.025 - 1.040			
Viscosity, cps	NMT 150			
Loss on drying %	68.0 - 71.0			
Ethyl cellulose %	24.5 - 29.5			
Sodium lauryl sulphate %	0.9 - 1.7			
Cetyl alcohol %	1.7 - 3.3			
Hydrogen peroxide, ppm	NMT 50			
Heavy metals %	NMT 0.001			
Total aerobic microbial count/gm	NMT 100			
Total yeast and mold count/gm	NMT 20			

Method of Use ->



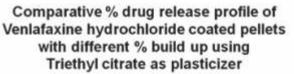
Packaging Storage:

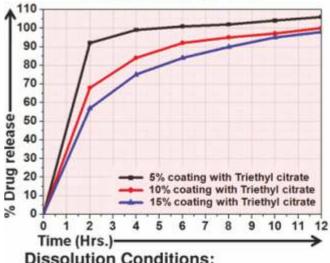
Should be stored at room temperature (20 - 25°C).

Should not be exposed to freezing or near freezing temperatures and temperatures above 35°C.

Shelf Life:

24 months from the date of manufacturing





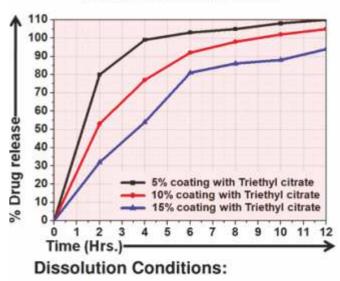
Dissolution Conditions:

Medium: 900 ml of 0.1N HCl.

Apparatus: Type II.

Speed: 50 rpm

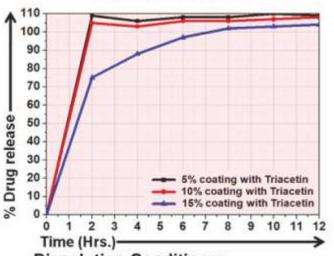
Comparative % drug release profile of Metoprolol succinate coated pellets with different % build up using Triethyl citrate as plasticizer



Medium: 900 ml of 0.1N HCl.

Apparatus: Type II. Speed: 50 rpm

Comparative % drug release profile of Venlafaxine hydrochloride coated pellets with different % build up using Triacetin as plasticizer



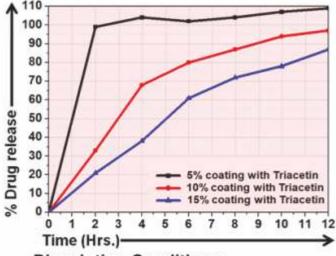
Dissolution Conditions:

Medium: 900 ml of 0.1N HCl.

Apparatus: Type II.

Speed: 50 rpm

Comparative % drug release profile of Metoprolol succinate coated pellets with different % build up using Triacetin as plasticizer



Dissolution Conditions:

Medium: 900 ml of 0.1N HCl.

Apparatus: Type II.

Speed: 50 rpm



