

MICROCRYSTALLINE CELLULOSE POWDER



Manufactured by :

LAKSHMI ENTERPRISES

(ISO, FSSAI, GMP AND HALAL Certified Company)

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INTRODUCTION :

Microcrystalline Cellulose Powder is a very important component which is designed primarily for pharmaceutical solid dosage formulations. It is economical in application to use in bulk, continuous production of Tablets and Capsules for human beings and animal's health products. It is manufactured by using hoisery coton waste and wood pulp for differenciating the grade required by the consumer.

DESCRIPTION

Microcrystalline Cellulose Powder is a purified and chemically inert material. It is derived from cotton wood pulp in the form of Alpha Cellulose. In the form of inert nature, it does, not interest any system of human - beings and animals. So, it is mainly used to manufacture tablets and capsules. by all pharmaceutical products.

QUALITY

Different grades of IP/101/102/NF/BP and USP could be produced according to the buyer's requirements, then and there. It is white, odourless, tasteless, free from organic and inorganic contaminations. It is insoluble in water, dilute acids and mostly in organic solvents, particularly insoluble in Sodium Hydroxide

APPLICATIONS :

Tablet Manufacturing :

Process :

A. Direct
Compression

Advantages :

- ◆ Chemical Purity
- ◆ Binder
- ◆ Disintegrant
- ◆ Flow aid
- ◆ Filler
- ◆ Inertness

Method of use :

Tableting by direct compression involves only weighing Mixing & compressing.

B. Wet Granulation

- ◆ Binder
- ◆ Rapid wicking action
- ◆ permits fast addition of granulation fluid being most absorbent
- ◆ Most Inert



QUANTUM TO BE USED

The amount to be used in direct compression tableting depends on the flow and compression characteristics of the formulations other ingredients.

Typical use level if of 15 to 20 %

Granulation use level 15 %

Levels in excess of 90% has been reported

CAPSULES MANUFACTURING

Process :

Direct blending

Advantages :

- ◆ Best carrier for high active formula drugs
- ◆ Disintegrant
- ◆ Free flow aid in gravity fill equipment
- ◆ Dry granulation

Method of use :

Involves only three steps weighing mixing and filling.

The MCCP involves only three steps in processing, so it has definite economic viability and quality to the final product.

(Being saved other processes which expose the drugs to atmosphere)

PERFORMING TABLETS AND CAPSULES MAKING

Characteristics

1. Chemical purity

2. Binder

3. Disintegrant

4. Flow Aid

5. Inertness

6. Absorbent

Advantages :

- ◆ Non - reactive organic ingredient extremely low level of organic and inorganic contaminations.
- ◆ High hardness level, low friability and excellent compression
- ◆ keep uniform concentration of drug in solution
- ◆ Requires less lubricant than other typical binders.
- ◆ Drugs Chemical status is maintained
- ◆ keeps drugs uniformly mixed

RESULTS WITH USE OF MCC TABLETING

- ◆ Excellent hardness levels at low compression forces
- ◆ Low lubricant sensitivity
- ◆ Low Tablet Friability
- ◆ Good disintegration aid
- ◆ Super stability

MCCP IN FOODS (DIETARY & NONDIETARY)

MCCP is an excellent source of functional and non - nutritive fillers for use in special dietary foods because it can not be metabolised by human body.

- I. It is easily distributed and absorbed on the surface of cheese and this properly is useful for making frozen pizzas.
- II. The requirement of starch thickener is reduced considerably by using 20% of MCCP.
- III. This gives standard Viscosity, body and texture for products in bakery fillings, canned sauces etc.
- IV. It is used in the manufacture of ice creams because of its excellent foam stabilising properly.
- V. It increases the volume in making pancakes and leads to even Cooking.
- VI. in making breads MCCP due to its capacity to absorb water. gives better moistured control and has less oily nature.

MCCP IN COSMETICS

MCCP is used for making creams, lotions and various cosmetic emulsions as it has an excellent compatibility with other hydrocolloids.

ADVANTAGES :

MCCP is mainly used for tablet compressions and suspensions, Some of the tablet makers use starch instead of MCCP because the price of starch is low compared to MCCP. However, there are number of disadvantages in using starch. since it causes fermentation while in use and also has a low self - life.

SPECIAL FEATURES OF OUR PRODUCT :

We are manufacturing MCCP with the capacity of 300 - 500 M.T. per anm. We hope that this product could be applicable in the arena of pharmaceutical. cosmetic. and food. We are having well equipped quality control and R & D Laboratory to meet the international Standards of BP / NF / USP Specifications.