



PRACHIN CHEMICAL

Quality. Relationship. Legacy.



Quality Meets
EXCELLENCE

www.PrachinChemical.com

ABOUT COMPANY

Prachin Chemical is a GMP, ISO, HALAL, Kosher, FSSAI, USDMF and Excipact certified company, producing superior quality excipients like derivatives of cellulose, starch, citrates and stearates. Spread over an area of 2200 sq.mt. in Gujarat, our manufacturing facility conforms to international standards of BP, USP, NF, FSSAI, Ph.Eur, JP besides our very own Indian Pharmacopoeia (IP). Since 1989, we have been a strong & highly productive associate for the manufacturers of Pharmaceutical Sector, Food, Ceramics, Paints, etc.

We haven't just catered to the domestic industries but also made a mark in highly competitive world markets. For this, we credit our adherence to the most stringent international standards and the application of the best production practices.



VISION & MISSION

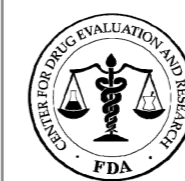
VISION

- To unflinchingly provide most superior quality products at a reasonable price.
- To strongly stay committed and meet every product specification including in-house.
- To consistently achieve utmost customer satisfaction.

MISSION

To be a global leader in excipient manufacturing and supply, especially known for the most effective Quality Management System and highest satisfaction of customers and stakeholders.

CERTIFICATIONS



PARCROS (USDMF 32704)

Croscarmellose Sodium (IP/BP/USP/Ph. Eur.)

PARCROS – 511	(IP)
PARCROS – 711	(USP)
PARCROS – V811	(BP)
PARCROS – G911	(BP/USP/Ph. Eur.)

Croscarmellose sodium is a superdisintegrant that provides an efficient disintegration at low level of use. Disintegration performance is obtained through the wicking and swelling capacity of PARCROS that can be maximized via the selection of its process. Various grades are available to help you optimize your product selection. It is flexible as it is adapted to wet and dry granulation or direct compression processes. It is a crosslinked carboxymethyl cellulose sodium.

Croscarmellose sodium can be used in various oral dosage forms in both pharmaceutical and nutraceutical applications as an excipient including swallowable tablets, orally dispersible tablets, hard capsules, blends, granules and pellets premix.

Specifications

Croscarmellose Sodium (IP/BP/USP/Ph.Eur) USDMF 32704

Grade	Raw Material	ROI	Loss on Drying	Settling Volume	Application
PARCROS-511	Cellulose	14%-28%	NMT 10%	10ml-30ml	A cellulose-based superdisintegrant, providing excellent results in tablet disintegration. Used at a level of 1 - 4 % only, it is one of the most efficient superdisintegrants in pharmaceutical technology. PARCROS can be used in all tableting processes. Especially good for medium soluble actives.
PARCROS 711	Cellulose	14%-28%	NMT 10%	10ml-30ml	
PARCROS-V811	Cellulose	14%-28%	NMT 10%	10ml-30ml	
PARCROS-G911	Cellulose	14%-28%	NMT 10%	10ml-30ml	

Application

- Cross-linking reduces water solubility
- Superior Tablet Disintegration
- Used in both Wet Granulation and Direct Compression
- Distinct advantages over other Tablet Disintegrators
- Effective even at low levels
- Superior long-term Dissolution Stability
- Insensitive to Tablet Hardness

Features

Non-Allergic






Non-Toxic

GMO-Free



PARGEL (USDMF 37308)

Sodium Starch Glycolate (IP/BP/USP/Ph. Eur.)

 PARGEL – P15	Potato	(IP)
 PARGEL – P25	Potato	(BP/USP/Ph. Eur.)
 PARGEL – M10	Maize	(IP)
 PARGEL – M7	Maize	(USP)
 PARGEL – M5	Maize	(BP/Ph. Eur.)

Specifications (Maize/Potato)

Sodium starch glycolate provides pharmaceutical and nutraceutical manufacturers with a range of superdisintegrants for different formulation needs. Our product provides this benefit for swallowable tablets, orally dispersible tablets and hard capsules.

Prachin has been producing sodium starch glycolate for more than 20 years. We have developed different grades to meet specific needs, such as withstanding high shear granulation, acidic conditions or with a low organic solvent content.

Grade	LOD	Assay	Application
PARGEL – P15	NMT 10%	2.8%-4.2%	Superdisintegrant with a rapid and high degree of swelling for tablet and capsule formulations. Especially for poorly water-soluble actives.
PARGEL – P25	NMT 10%	2.8%-4.2%	
PARGEL – M10	NMT 10%	2.8%-4.2%	Low/medium/high-viscosity grade superdisintegrants, forming translucent gels in water. Compliant with Type A, Type B & Type C with IP/BP/USP/Ph. Eur.
PARGEL – M7	NMT 10%	2.8%-4.2%	
PARGEL – M5	NMT 10%	2.8%-4.2%	

Application

Sodium starch glycolate is a commonly used super-disintegrant employed to promote rapid disintegration and dissolution of solid dosage forms. It is manufactured by chemical modification of starch, i.e., carboxymethylation to enhance hydrophilicity and cross-linking to reduce solubility.

Features

Non-Allergic

Non-Toxic

GMO-Free



PARCEL

Microcrystalline Cellulose (Bulk Dried/Spray Dried) (IP/BP/USP/Ph. Eur.)

PARCEL (Microcrystalline Cellulose) is an odorless, tasteless white powder with a high degree of brightness, derived from highly purified wood pulp. With a wide range of chemical, technical, and economic benefits, MCC is one of the most widely used binder/filler excipients for tablet formulations. PARCEL offers the most complete range of Prachin Chemical high quality MCC - with various grades designed for specific formulation needs. With decades of experience in manufacturing high quality MCC, we can ensure high batch-to-batch consistency with all our MCC products. In addition, Functionality Related Characteristics, such as flowability, are analyzed and certified for all various PARCEL grades.

Specifications

Grade	Conductivity	Bulk Density (g/ml)	Application
PARCEL – 101	NMT 75 μ S/cm	0.26 – 0.31	Fine standard MCC grade, especially suited for wet granulation, roller compaction and spheronization. Very high compactability.
PARCEL – 102	NMT 75 μ S/cm	0.28 – 0.33	Medium size standard MCC grade, suited for the majority of directly compressible actives. Combines good flow and high compactability.
PARCEL – 112	NMT 75 μ S/cm	0.30 – 0.36	Same quality to grade 102, but very low moisture content (< 2%) for processing water-sensitive actives
PARCEL – 200	NMT 75 μ S/cm	0.31 – 0.37	Large size MCC grade with excellent flow properties for a variety of direct compression formulations.
PARCEL – 301	NMT 75 μ S/cm	0.35 – 0.46	Same quality as grade 101, but increased bulk density and improved flow properties.
PARCEL – 302	NMT 75 μ S/cm	0.35 – 0.50	Same quality to grade 102, but increased bulk density and improved flow properties. Especially suited for high speed tableting and processing high density actives.

PARCEL – 581	It is a combination of Carboxy Methyl Cellulose Sodium & Microcrystalline Cellulose having various viscosities.
PARCEL – 591	
PARCEL – 611	
PARCEL – 711	

Application

- ✓ High compactability
- ✓ Robust tablets with low friability
- ✓ High production yields
- ✓ Cost savings due to reduction in dosage levels
- ✓ Compatibility with most APIs (inert)

Features

Non-Allergic

Non-Toxic

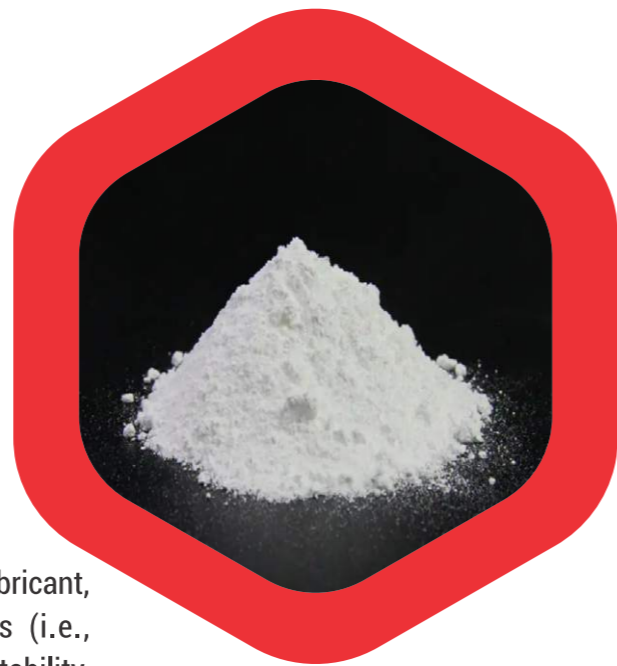
GMO-Free



SODIUM STEARYL FUMARATE

(BP/USP/Ph. Eur.)

Sodium stearyl fumarate is an inert, hydrophilic, tablet lubricant, useful in situations where other lubricating agents (i.e., magnesium stearate) fail to provide tablets of adequate stability, hardness, content uniformity, disintegration and dissolution rate.



USP-NF	USP	BP	Ph. Eur.
Name	Sodium stearyl fumarate	Sodium stearyl fumarate	Sodium stearyl fumarate
Authorised use	Excipient	Excipient	Excipient
Definition	specified	specified	specified
Identification	specified	specified	specified
Characters	n/a	specified	specified
Related substances	n/a	=0.5%	=0.5%
Water	=5.0%	=5.0%	=5.0%
Lead	=0.001%	n/a	n/a
Heavy metals	n/a	n/a	n/a
Sodium stearyl maleate	=0.25%	n/a	n/a
Stearyl alcohol	=0.5%	n/a	n/a
Saponification value	142.2-146.0	n/a	n/a
Assay	99.0-101.5	99.0-101.5	99.0-101.5

Features

Non-Allergic

Non-Toxic

GMO-Free

Application

- ✓ Tablet and Capsule Lubricant

CARBOXY METHYL CELLULOSE SODIUM

(IP/BP/USP/Ph. Eur.)

CARBOXYMETHYL CELLULOSE SODIUM is a Cellulose Gum (Cellulose Ether), commercially known as CMC or CMC Sodium or Sodium CMC. CARBOXYMETHYL CELLULOSE is an anionic water-soluble polymer available in number of grades and viscosity types with wide application. SODIUM CARBOXYMETHYL CELLULOSE is odourless, tasteless, non-toxic powder. It is highly soluble in both hot & cold water but dissolves faster in hot water than cold water. The solution of CARBOXY METHYL CELLULOSE has better resistant for microbiological attack than many natural products.

Specifications

- Used in Pharma for Suspension, Thickening and Stabilizing.
- It is also used in Drilling, Paper, Detergents, Food, and Textile Dyeing Printing.
- In Pharmaceutical Industry, CMC is used for Suspension, Thickening and Stabilizing.
- In Toothpaste manufacturing, CMC is used for Thickening and viscosity Stabilizing agent.
- CMC is widely used in various kinds of Dairy products and condiments and plays a role of stabilization, taste improvement and thickening. In addition, CMC is also used in ice cream, bread, cake, biscuit, instant noodle and fast paste foodstuff for product moulding, taste enhancement, anti – fragmentation, water retaining and tenacity strengthening.
- In Cosmetics, CMC is used in Hair Colour, Henna, Instant tattoo etc.
- It is also used in Oil Well Drilling, Paper, Detergents, Paints, and Textile Dyeing & Printing, Ceramics, Mining etc.

Features

Non-Allergic

Non-Toxic

GMO-Free

Application

- ✓ Used as Binding Agent
- ✓ Used as Suspending Agent
- ✓ Thickening Agent
- ✓ Stabilizer
- ✓ Ultra-low viscosity to extra high viscosity as desired by market
- ✓ Emulsifying Agent

PARMEG

MAGNESIUM STEARATE (IP/BP/USP/Ph. Eur.)

Magnesium Stearate is an additive that is most frequently used as a lubricant. Magnesium Stearate is capable of forming films on other tablet excipients during prolonged mixing, leading to a prolonged drug liberation time, a decrease in hardness, and an increase in disintegration time.

PARMEG – M4	(IP)
PARMEG – M5	(USP)
PARMEG – M6	(BP/Ph. Eur.)

Specifications

- Oral Dosage for Pharmaceuticals and/or Nutraceuticals
- It can be used in the preparation of the Swallowable tablet, Blends, Chewable tablets, Granules, Orally Dispersible tablet & Hard capsules
- It is also helpful in making Pellets Premix
- It also useful for Effervescent Tablets

Application

- ✓ Acts as Lubricating Agent in tablet manufacturing
- ✓ As a Stabilizer and Lubricant for pharma & food industries
- ✓ Emulsifying Agent in Cosmetics



Features

Non-Allergic

Non-Toxic

GMO-Free

CALPAR (USDMF 33649)

Carboxy Methyl Cellulose Calcium (IP/BP/USP/JP/Ph. Eur.)



● CALPAR – P100 (IP)

● CALPAR – P200 (BP/USP/JP/Ph. Eur.)

● Specifications

- Carmellose Calcium (Calcium CMC)
- Carmellose Calcium is calcium salt of Carboxy Methyl Cellulose. It is also popularly known as Carmellose Calcium.
- Carmellose Calcium is highly pure white powder used for tablet disintegration.
- Carmellose Calcium is insoluble in water but it swells in water and it is used as super disintegrant in pharmaceutical tablet formulation. It helps tablets to disintegrate rapidly and also improves dissolution properties.
- Carmellose Calcium performs well with hard tablets where other disintegrants do not perform well
- It is mainly used in the preparation of Dry Pet Foods.

● Application

- ✓ Widely used in Food Products.
- ✓ It helps to absorb and hold water, Control Crystal Growth.
- ✓ It works as a binder .
- ✓ It is main functionality is to increase the Shelf Life.
- ✓ It is also used to provide the desired texture or the shape .

● Features

Non-Allergic

Non-Toxic

GMO-Free

CITRATES

Calcium Citrate (USP) is the citrate salt of calcium. An element necessary for normal nerve, muscle, and cardiac function, calcium as the citrate salt helps to maintain calcium balance and prevent bone loss when taken orally. This agent may also be chemopreventive for colon and other cancers. Calcium citrate is a salt typically used as a source of calcium in a variety of over the counter supplements.

Magnesium Citrate (BP/USP/Ph. Eur.) mainly works through its property of high osmolality which will draw large amounts of fluid into the colonic lumen. There is also a possible stimulation of fluid excretion by cholecystokinin release and activation of muscle peristalsis.

Potassium Citrate (IP/BP/USP) is a potassium salt of citric acid containing about 38.3% potassium by mass. It is a urinary alkalizer. One gram of potassium citrate provides 9.26 mEq of potassium.

Sodium Citrate (IP/BP/USP) is chiefly used as a food additive, usually for flavour or as a preservative, buffering agent, acidity regulator, antacid, It is also used as an anticoagulant in blood transfusions. It is used to relieve discomfort in urinary tract infections.

● Application

- ✓ Dietary supplement; sequestrant, buffer and firming agent in foods and medicine
- ✓ Calcium Citrate is a salt used as a calcium replenisher. Its used especially as a food additive and dietary supplement.
- ✓ Citrate also inhibits the spontaneous nucleation of calcium oxalate and calcium phosphate.
- ✓ Magnesium Citrate is used to clean stool from the intestines before surgery or certain bowel procedures.
- ✓ Potassium Citrate is used to treat a kidney stone condition. It is a mineral that is found in many foods and is needed for several functions of your body, especially the beating of your heart.
- ✓ In cosmetics, sodium citrate serves as a buffering agent to control pH level and as a preservative to prevent contamination and degradation by microorganisms.

● Features

Non-Allergic

Non-Toxic

GMO-Free

ETHYL CELLULOSE

Ethyl Cellulose is a derivative of cellulose in which some of the hydroxyl groups on the repeating glucose units are converted into ethyl ether groups. The number of ethyl groups can vary depending on the manufacturer.

It is mainly used as a thin-film coating material for coating paper, vitamin and medical pills, and for thickeners in cosmetics and in industrial processes.

Food grade ethyl cellulose is one of few non-toxic films and thickeners which are not water soluble. This property allows it to be used to safeguard ingredients from water.

Application

- ✓ Ethyl Cellulose is used in pharmaceutical technology as a coating agent, flavoring fixative, binder, filler, film-former, drug carrier, or stabilizer, and food additive as an emulsifier.

Features

Non-Allergic

Non-Toxic

GMO-Free



PARONE

CROSPOLIDONE - XL 10 (Type B) (IP/BP/USP/Ph. Eur.)

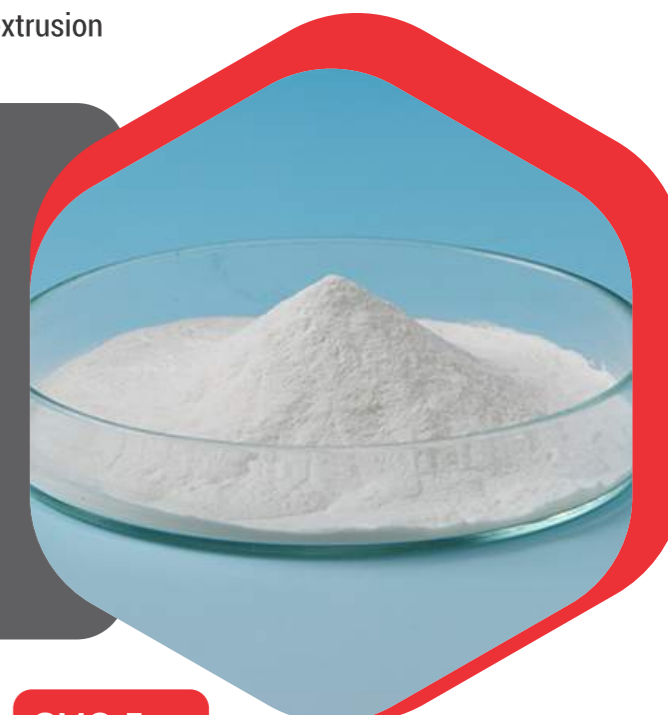
- PARONE is a 6:4 linear random copolymer of N-vinylpyrrolidone and vinyl acetate. The vinyl acetate component of PARONE reduces the hydrophilicity and glass transition temperature (Tg) compared to povidone homopolymers of similar molecular weight.
- As a result, PARONE is the ultimate tablet binder that extends its excellent adhesive property in wet granulation, as well as in dry granulation and direct compression.
- Due to its spherical, hollow particle morphology and high plasticity, PARONE performs exceptionally well as a binder for direct compression.
- In addition, a lower Tg makes PARONE an ideal polymer matrix for solid dispersions/solutions via hot melt extrusion, which enhances the dissolution of poorly soluble drug actives.

Specifications

- Suitability for use in direct compression, dry granulation, wet granulation, hot melt extrusion, and film coating.
- Good flowability
- Large surface area due to hollow particle morphology – enhances particle bonding and good compressibility
- Ideal glass transition temperature (Tg) for hot melt extrusion

Application

- ✓ Peroxide sensitive APIs
- ✓ Orally disintegrating tablets (ODT)
- ✓ Tablets that require fast disintegration
- ✓ With poorly soluble APIs
- ✓ With poorly compressible APIs



Features

Non-Allergic

Non-Toxic

GMO-Free

OUR CLIENTS



A STRONG PARTICIPANT IN INDUSTRIAL DEVELOPMENT

- Croscarmellose Sodium - IP/BP/USP/Ph. Eur. # USDMF 32704
- Carboxy Methyl Cellulose Calcium – USP/BP/JP/Ph. Eur. # USDMF 33649
- Magnesium Stearate - IP/BP/USP/Ph. Eur.
- Sodium Carboxy Methyl cellulose - IP/BP/USP/Ph. Eur.
- Sodium Starch Glycolate - IP/BP/USP/Ph. Eur. # USDMF 37308
- Microcrystalline Cellulose - IP/BP/USP
- Crospovidone XL 10 - IP/BP/USP/Ph. Eur.
- Pregelatinized Starch - IP/BP/USP/ Ph. Eur.
- Dibasic Calcium Phosphate - IP/BP/USP
- Calcium Citrate – USP
- Calcium Citrate Malate – HIS
- Starch - IP/BP/USP
- Di Sodium Edetate - IP/BP/USP
- Calcium Stearate - IP/BP/USP/Ph. Eur.
- Xanthan Gum - BP/USP/Ph. Eur.
- Sodium Citrate - IP/BP/USP
- Potassium Citrate - IP/BP/USP
- Magnesium Citrate (Monohydrate) - BP/USP/Ph. Eur.
- Hydroxy propyl methyl cellulose - IP/BP/USP
- Hydroxy ethyl Cellulose - BP/USP
- Starch (Maize) - IP/BP/USP
- Povidone - IP/BP/Ph. Eur.
- Lactose - IP/BP/USP/Ph. Eur.
- Talc - IP/BP/USP/Ph. Eur.
- Sodium Stearyl Fumarate – BP/USP/Ph. Eur.



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