



PRACHIN
PHARMACHEM



Shaping
Wellness
Together



www.prachinpharmachem.com



About Us

Prachin Pharmachem is a GMP, ISO, HALAL, Kosher, FSSAI, USDMF, Excipact, and Chinese DMF certified company, producing superior quality excipients like derivatives of cellulose, starch, citrates, and stearates. With manufacturing units in Ahmedabad, Ankleshwar, Jhagadia, and Visakhapatnam, our facilities conform to international standards of BP, USP, NF, FSSAI, Ph.Eur, JP, as well as our very own Indian Pharmacopoeia (IP). Since 1989, we have been a strong and highly productive associate for manufacturers in the Pharmaceutical, Nutraceutical, Food, Ceramics, and Paint sectors.

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



Shaping Wellness Together



Vision

To be a globally recognized and trusted partner in manufacturing, setting new benchmarks in quality, innovation, and sustainability. We strive to empower the industries, enrich lives, and contribute to the success of our customers, employees, and communities through responsible practices and advanced manufacturing solutions.

Mission

Our mission is to deliver world-class, pharmaceutical-grade excipients & API that meet the highest standards of safety, quality, and reliability. Through continuous innovation, rigorous compliance, and strong work partnerships, we aim to enhance manufacturing efficiency and make healthcare more accessible across the globe.

PARCROS

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

(USDMF 32704) (CDMF F20210000602)

PARCROS-511	(IP)
PARCROS-711	(USP)
PARCROS-711S	(USP)
PARCROS-G911	(BP/USP/Ph. Eur.)
PARCROS-R1011	(BP/USP/Ph. Eur.)
PARCROS-R1111	(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	Settling Volume	Mesh	LOD	Disintegration Time	Water Solubility
PARCROS-711	10-30 ml	95% Pass #100	NMT 10	Improved DT	NMT 10
PARCROS 711S	10-30 ml	95% Pass #200	NMT 10	Similar to 711, better Flow	NMT 10
PARCROS-G911	18-30 ml	95% Pass #200; 50% Pass #325	NMT 10	Superior to 711	NMT 10
PARCROS-R1011	10-20 ml	90% Pass #325	NMT 10	Comparable to G911	NMT 10
PARCROS-R1111	10-20 ml	95% Pass #200	NMT 6	Fastest DT	NMT 5

Application

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.

Application

- Natural product eliminates synthetic product
- Cross-linking reduces water solubility
- Rapid swelling helps 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

- ✓ Nitrosamine-Free
- ✓ Non-Hazardous
- ✓ GMO-Free

PARGEL

Sodium Starch Glycolate (IP/BP/USP/Ph. Eur. & CHP) (USDMF 37308)

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 is a white tasteless, odourless, relatively free flowing powder derived from cross-linking and carboxymethylation of either potato or maize (corn) starch. It functions as a highly effective superdisintegrant in pharmaceutical and nutraceutical formulations, promoting rapid tablet and capsule breakdown.

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.

Parameter	Specifications
PH	5.5 to 7.5
ASSAY	2.8% to 4.2%
LOD	NMT 10.0%
LIMIT OF SODIUM CHLORIDE	NMT 7.0%



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.



PARCEL

Microcrystalline Cellulose

Bulk Dried/Spray Dried) (IP/BP/USP/Ph.Eur. & CHP)

(USD MF 38147)

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 Pharmachem 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)	Particle size μm	Application
PARCEL - 101	NMT 75 $\mu\text{S/cm}$	0.26 - 0.31	50	Fine standard MCC grade, especially suited for wet granulation, roller compaction and spheronization. Very high compactibility
PARCEL - 102	NMT 75 $\mu\text{S/cm}$	0.28 - 0.33	100	
PARCEL - 112	NMT 75 $\mu\text{S/cm}$	0.30 - 0.36	100	Medium size standard MCC grade, suited for the majority of directly compressible actives. Combines good flow and high compactibility. Same quality to grade 102, but very low moisture content (< 2%) for processing water-sensitive actives
PARCEL - 200	NMT 75 $\mu\text{S/cm}$	0.31 - 0.37	180	
PARCEL - 301	NMT 75 $\mu\text{S/cm}$	0.35 - 0.46	50	Large size MCC grade with excellent flow properties for a variety of direct compression formulations. Same quality as grade 101, but increased bulk density and improved flow properties. 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 - 302	NMT 75 $\mu\text{S/cm}$	0.35 - 0.50	100	
PARCEL - 12	NMT 75 $\mu\text{S/cm}$	0.30 - 0.40	160	
PARCEL - 105	NMT 75 $\mu\text{S/cm}$	0.20 - 0.30	20	

Microcrystalline Cellulose + Carboxymethyl Cellulose

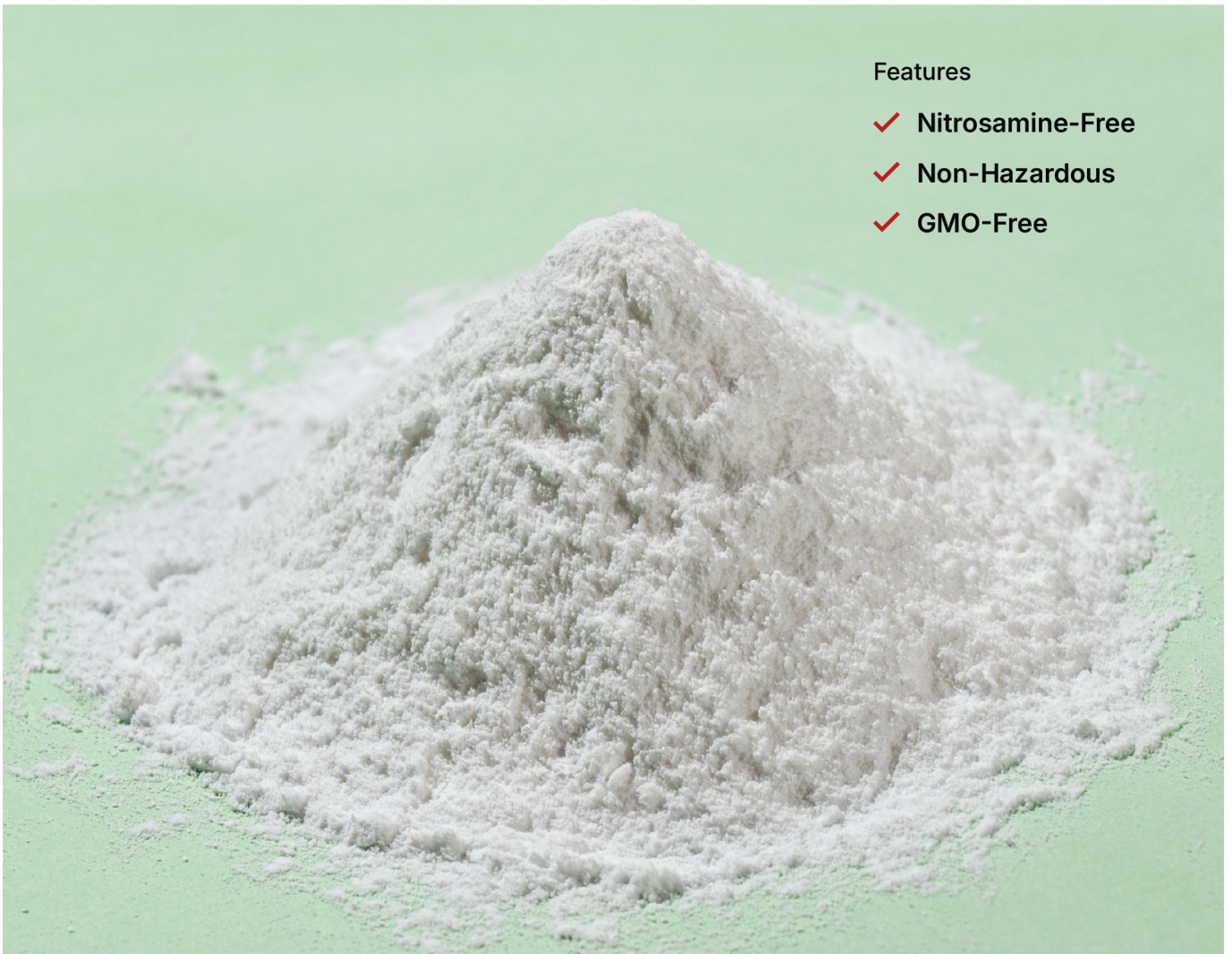
PARCEL - 581	It is a synthetic product of Carboxy Methyl Cellulose Sodium & Microcrystalline Cellulose having various viscosities.
PARCEL - 591	
PARCEL - 611	
PARCEL - 811	

Application

- Improved flowability and compressibility
- Enhanced disintegration or controlled release
- Increased viscosity and suspension stability
- Compatible with moisture-sensitive APIs

Features

- ✓ Nitrosamine-Free
- ✓ Non-Hazardous
- ✓ GMO-Free



SODIUM STEARYL FUMARATE

(BP/USP/Ph.Eur.)
(USDMF 39364)

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.
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
Surface area	n/a	1.2-2.0 m.sa/g	1.2-2.0 m.sq/g
Particle Size Distribution			
d10	n/a	<2.5 µm	<2.5 µm
d50	n/a	<20.0 µm	<20.0 µm
d90	n/a	<45.0 µm	<45.0 µm
Residual Solvent			
Acetone	n/a	<500ppm	<500ppm
Toluene	n/a	<890ppm	<890ppm

Application

- Tablet and Capsule Lubricant

Features

- ✓ Non-Allergic
- ✓ Non-Hazardous
- ✓ GMO-Free

CARBOXYMETHYL CELLULOSE SODIUM

(Food/Pharma)

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

Carboxymethyl Cellulose (CMC) is a versatile, water-soluble polymer widely utilized across various industries due to its excellent thickening, stabilizing, and water-retaining properties. It is effective in both hot and cold water and offers superior resistance to microbiological degradation compared to many natural products.

Features

- ✓ Nitrosamine-Free
- ✓ Non-Hazardous
- ✓ GMO-Free

CARBOXYMETHYL CELLULOSE SODIUM is a Cellulose Gum (Cellulose Ether), commercially known as CMC or CMC Sodium or Sodium CMC. CARBOXYMETHYL CELLULOSE SODIUM 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 SODIUM better resistant for microbiological attack than many natural products.

Application

- **Pharmaceutical Industry:**
Utilized as a thickening and stabilizing agent in suspensions and formulations, ensuring consistent viscosity and enhanced product stability:
- **Toothpaste Manufacturing:**
Functions as a thickener and viscosity stabilizer, contributing to smooth texture and product uniformity.
- **Food Industry:**
Extensively used in dairy products, ice cream, bread, cake, biscuits, and instant noodles to improve texture, prevent fragmentation, enhance taste, and maintain stability.
- **Cosmetics:**
Incorporated in hair color, henna, and instant tattoo gels for improved texture, water retention, and application consistency.
- **Industrial Applications:**
Applied in oil well drilling paper processing, detergents, textile dyeing and printing, ceramics, paints, and mining for its binding, sizing, and rheological control capabilities.

PARMEG

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

(USD MF 38148)

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

Magnesium Stearate is an additive that is most frequently used as a lubricant, It 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.

Specifications

Parameter	IP	USP	BP	EP
ASSAY (as mg)	3.8% to 5%	4.0% to 5%	4.0% to 5%	4.0% to 5%
LOD	NMT 6.0%	NMT 6.0%	NMT 6.0%	NMT 6.0%
ACID VALUE	NMT 5.0%	NMT 5.0%	NMT 5.0%	NMT 5.0%



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-Hazardous
- ✓ GMO-Free

CALPAR

Carboxy Methyl Cellulose Calcium (IP/BP/USP/JP/Ph. Eur./CHP)
(USDMF 33649)

CALPAR - P100 (IP)
CALPAR - P200 (BP/USP/JP/Ph. Eur.)

Carboxymethyl Cellulose Calcium is a white, odorless powder used as a superdisintegrant in pharmaceutical and nutraceutical formulations. It offers excellent swelling and disintegration properties, improving tablet breakdown and enhancing active ingredient release. Ideal for moisture-sensitive formulations, it is chemically stable, non-hygroscopic, and compatible with a wide range of excipients and APIs.

Specifications

Parameter	Specifications
SOLUBILITY	Complies as per pharmacopoeia
LOD	NMT 10.0%
ROI	10.0% - 20.0%

Application

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

Features

- ✓ Nitrosamine-Free
- ✓ Non-Hazardous
- ✓ GMO-Free



DIBASIC CALCIUM PHOSPHATE

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

Dibasic Calcium Phosphate (DCP) is a highly stable, calcium-rich excipient widely used in pharmaceutical & nutraceutical formulations. Available in both Anhydrous and Dihydrate forms, & offered as powder & DC grades, DCP is known for its excellent compressibility, flow properties, & compatibility with a wide range of active ingredients. It serves as both a diluent and a calcium source, making it ideal for solid oral dosage forms.

Specifications

Parameter	Dihydrate Powder	Anhydrous Powder	Dihydrate DC	Anhydrous DC
APPEARANCE	WHITE, ODOELESS POWDER	WHITE, ODOELESS POWDER	WHITE, FREE- FLOWING GRANULES	WHITE, FREE- FLOWING GRANULES
ASSAY	98.0 - 105.0%	97.5 - 102.5%	98.0 - 105.0%	97.5 - 102.5%
LOI	24.5% - 26.5%	6.6% - 8.7%	24.5% - 26.5%	6.6% - 8.7%
PARTICLE SIZE	150 µm	150 µm	98% PASS 250 µm 95% RETAINED ON 75µm	98% PASS 250 µm 95% RETAINED ON 75µm

Application

- Used as a diluent/filler in tablets, capsules, and granules.
- Anhydrous grades are preferred for moisture-sensitive APIs and direct compression.
- Dihydrate grades are suitable for wet granulation and as a calcium supplement.
- Granular forms offer excellent flowability and are ideal for high-speed tableting.
- Acts as a source of elemental calcium in nutraceutical and food formulations.
- Exhibits binding properties in certain formulations, improving tablet hardness and stability.

Features

✓ Allergen-free ✓ Non-Hazardous ✓ 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.

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.

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.

Calcium Citrate Malate (IP/BP/USP) is widely used in pharmaceutical and nutraceutical applications for bone health support. Known for its superior absorption, even on an empty stomach, Calcium Citrate Malate is ideal for tablets, capsules, and fortified food products. Its excellent solubility and stability make it a preferred choice in calcium supplementation.

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-Hazardous ✓ GMO-Free



MAGNESIUM SUPPLEMENTS

Magnesium is an essential mineral involved in over 300 enzymatic reactions in the human body, playing a critical role in muscle function, nerve transmission, bone health, and energy metabolism. We offer a range of high-purity, bioavailable magnesium compounds designed for diverse applications in nutraceutical, pharmaceutical, and functional food formulations.

Available in Powder & DC grades

Magnesium Glycinate: A highly bioavailable form of magnesium chelated with glycine. Known for its gentle effect on the stomach and superior absorption rate, it is widely used in sleep, stress, and muscle health formulations.

Magnesium Bisglycinate: A dipeptide chelate of magnesium and two glycine molecules, offering enhanced stability and absorption. Preferred in premium nutraceuticals for stress, muscle recovery, and cardiovascular support.

Magnesium Oxide: A cost-effective, concentrated source of elemental magnesium with high magnesium content (~60%). Commonly used in antacid, laxative, and dietary supplement formulations.

DiMagnesium Malate: A unique compound combining magnesium and malic acid, promoting muscle energy support and reducing fatigue. It offers both high elemental magnesium and metabolic support benefits.

Magnesium Citrate Malate: A dual-acid complex of citric and malic acids with magnesium, offering excellent bioavailability and digestive compatibility. Ideal for bone, nerve, and metabolic health applications.





Application

- Dietary supplements (capsules, tablets, powders)
- Functional beverages and nutrition blends
- Bone and joint health formulations
- Muscle recovery and sleep aids
- Energy and metabolic health products
- Antacids and laxatives (Magnesium Oxide)

Features

- ✓ **Nitrosamine-Free**
- ✓ **Non-Hazardous**
- ✓ **GMO-Free**



PARONE (PVPP)

CROSPROVIDONE - XL (Type A) / CROSPROVIDONE - XL 10 (Type B)
(IP/BP/USP/Ph. Eur.) (PVPP)

PARONE XL / XL10 is a high-performance, water-insoluble superdisintegrant used in pharmaceutical tablet & capsule formulations. It promotes rapid disintegration & dissolution of solid oral dosage forms, ensuring quick release of active ingredients. Both grades offer excellent swelling capacity without gelling, with XL10 featuring a finer particle size for improved uniformity & performance in direct compression & capsule filling. They are widely compatible with a range of APIs & ideal for use in both immediate-release and fast-dissolving formulations.



Specifications

Parameter	Crospovidone - XL	Crospovidone - XL10
APPEARANCE	White to off-white, free-flowing powder or granular	White to off-white, free-flowing powder or granular
IDENTIFICATION D	Coarser grade(larger partical size)	Finer grade(smaller partical size)
WATER INSOLUBILITY	Insoluble, but swells rapidly	Insoluble, but swells rapidly
LOD	NMT 5.0%	NMT 5.0%
pH	5.0 - 8.0	5.0 - 8.0
NITROGEN CONTENT	11.0% - 12.8%	11.0% - 12.8%
PEROXIDE CONTENT	NMT 400PPM	NMT 400PPM
RESIDUAL VINYLPIRROLIDONE	NMT 10 PPM	NMT 10 PPM

Application

- Used as a superdisintegrant in a wide range of solid oral dosage forms.
- Enhances tablet and capsule disintegration, promoting rapid drug release.
- Suitable for wet granulation, dry granulation, and direct compression processes.
- XL: Ideal for conventional tablet formulations.
- XL10: Optimized for direct compression, fast-dissolving tablets (ODTs), & capsule filling.
- Compatible with a broad range of APIs and excipients.
- Commonly used in immediate-release and fast-acting formulations.

POVIDONE (PVP)

(IP/BP/USP26/USP45/Ph.Eur.)

Povidone, also known as Polyvinylpyrrolidone (PVP), is a water-soluble polymer used in pharmaceutical, nutraceutical, and cosmetic formulations. It functions primarily as a binder, film-former, and stabilizer. The K-value indicates molecular weight, with K30 being ideal for binding in tablets and granules, and K90 suitable for viscous solutions, controlled-release formulations, and topical applications.



Specifications

Parameter	K30	K90
APPEARANCE	White to off-white; hygroscopic poeder	White to off-white; Hygroscopic poeder
K-VALUE	27.0 - 32.0	85.0 - 95.0
MOISTURE CONTENT	NMT 5.0%	NMT 5.0%
pH	3.0 - 7.0	3.0 - 7.0
RESIDUAL VINYLPIRROLIDONE	NMT 10 PPM	NMT 10 PPM
PEROXIDE CONTENT	NMT 400PPM	NMT 400PPM
NITROGEN CONTENT	11.5% - 12.8%	11.5% - 12.8%
HEAVY METALS	NMT 10 PPM	NMT 10 PPM

Application

Povidone K30

- Binder in tablets and capsules (wet granulation or solution binding)
- Film-former in coatings and sprays
- Solubilizer in oral and topical solutions

Povidone K90

- Used in controlled-release formulations and topical gels
- Thickening and stabilizing agent in syrups and suspensions
- Suitable for ophthalmic, dermal, and transdermal systems

Features

✓ Nitrosamine-Free ✓ Non-Hazardous ✓ GMO-Free



OUR CLIENTS



Our Product Portfolio

1. Croscarmellose Sodium - IP/BP/USP/Ph. Eur./CHP # USDMF 32704 #CDMF F20210000602
2. Carboxy Methyl Cellulose Calcium - USP/BP/JP/Ph. Eur./CHP # USDMF 33649
#CDMF F20220000047
3. Microcrystalline Cellulose - IP/BP/USP #USDMF 38147
4. Sodium Starch Glycolate - IP/BP/USP/Ph. Eur. # USDMF 37308
5. Magnesium Stearate - IP/BP/USP/Ph. Eur. #USDMF 38148
6. Sodium Stearyl Fumarate - BP/USP/Ph. Eur. #USDMF 39364
7. Sodium Carboxy Methyl cellulose - IP/BP/USP/Ph. Eur.
8. Crospovidone XL & XL 10 - IP/BP/USP/Ph. Eur.
9. Povidone - IP/BP/Ph. Eur.
10. Dibasic Calcium Phosphate - IP/BP/USP
11. Calcium Citrate — USP
12. Calcium Citrate Malate - IHS
13. Magnesium Citrate (Monohydrate) - BP/USP/Ph. Eur.
14. Potassium Citrate - IP/BP/USP
15. Starch - IP/BP/USP
16. Pregelatinized Starch - IP/BP/USP/ Ph. Eur.
17. Hydroxy propyl methyl cellulose - IP/BP/USP
18. Hydroxy ethyl Cellulose - BP/USP
19. Calcium Stearate - IP/BP/USP/Ph. Eur.
20. Di Sodium Edetate - IP/BP/USP
21. Lactose - IP/BP/USP/Ph. Eur.
22. Xanthan Gum - BP/USP/Ph. Eur.
23. Magnesium Bisglycinate
24. Talc - IP/BP/USP/Ph. Eur.
25. Stearic Acid Powder
26. Polyethylene Glycol - PEG 6000 Powder

DC Grades available in

- Dibasic Calcium Phosphate
- Magnesium Oxide
- Magnesium Glycinate
- Calcium Citrate
- Calcium Carbonate



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