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SYNVENT MATERIALS CORPORATION

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PHARMACEUTICAL EXCIPIENTS

SynVidone®

About Us: Leading the Way in Functional Materials

Since our establishment in March 2020, Synvent Materials Corporation has been setting the standard. With two cutting-edge production facilities in Shandong and Ningxia, we deliver unparalleled products and solutions across diverse industries. Backed by a major shareholder ranked among China's top 500 enterprises and active in new energy, materials, petrochemicals, and fine chemicals, we are committed to excellence.

Synvent Ningxia Co. Ltd: Industry-Leading Production of Functional Materials

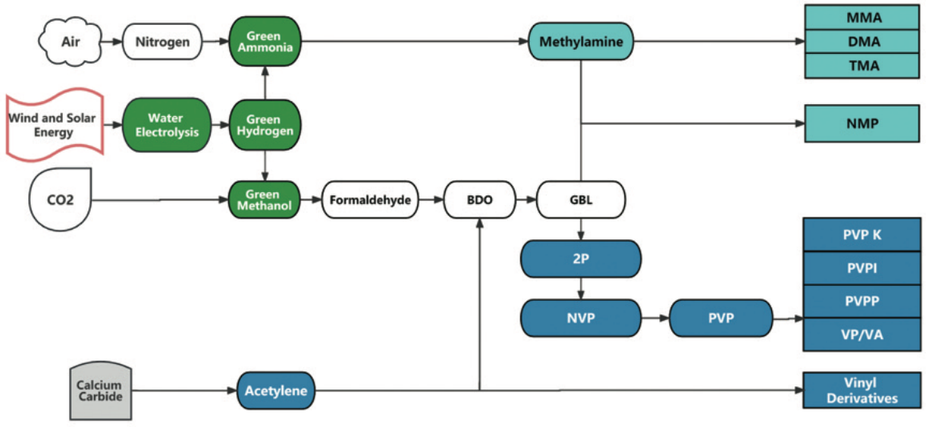
Synvent Ningxia Co. Ltd uses state-of-the-art process technology to focus on acetylene derivatives, NMP, and PVP polymer series. Our portfolio includes high-quality offerings such as N-methylpyrrolidone (NMP), 1,4-butanediol (BDO), γ-butyrolactone (GBL), 2-Pyrrolidone (2P), and polyvinylpyrrolidone series (PVP-K, PVP-I, PVPP, VP/VA, etc.).

All pharmaceutical, cosmetic, food and oral care products are manufactured under strict cGMP standards and REACH registered.

With our broad pharmaceutical excipients expertise, equipped with an in-depth understanding of multiple technologies and applications, we provide high-quality products and reliable solutions for the pharmaceutical industry, and are committed to becoming the most trusted partner of our customers.

SynVidone® and PolySynVidone® are registered brands of PVP pharmaceutical products under Synvent Group.

The Production Flow Chart of Synvent Ningxia



Committed to Quality: Driving Innovation Forward

Synvent Materials Corporation remains unwavering in our dedication to quality and innovation. We provide cutting-edge platforms for lab-scale and pilot-scale testing and industrialization. Our R&D center spans over 7000 square meters and is equipped with state-of-the-art instruments and technology, including gas chromatographs, UV-visible spectrophotometers, infrared spectrometers, laser particle size testers, rotary tablet presses, and Karl Fischer moisture analyzers. By collaborating with prestigious institutions like Tsinghua University and Xiamen University, we continuously push the boundaries of research and application.

- Adherence to CNAS construction standards
- Optimized clean-room conditions
- Efficient and practical layout
- Complete suite of advanced instruments

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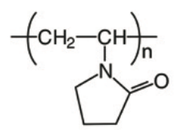
Environmentally Responsible: Redefining Sustainable Production

At Synvent, we integrate environmental responsibility into everything we do. We fully comply with Government requirements and regulations. We monitor our production processes in real-time and achieve 100% wastewater recycling, minimizing our environmental footprint by leveraging the natural advantages of the Ningxia base. By embracing green, low-carbon practices, our Ningxia base serves as a hub for eco-friendly production. Through ongoing carbon reduction projects, including green electricity hydrogen production and liquid ammonia initiatives, we are paving the way for a zero-emission, circular industry certified for carbon neutrality.

Povidones: SynVidone® K-series

Advantages
- Nontoxic
- Dissolves quickly in water
- Chemical stable



CAS No.: 9003-39-8

SynVidone® K-series povidones combine a unique set of properties for application in a wide variety of dosage forms. These water-soluble polymers, based on N-vinylpyrrolidone, are commonly used as binders for tablet formulations, whether manufactured by wet granulation, dry granulation, or direct compression. The highly adhesive polymer offers excellent tablet binding capacity at low concentrations, producing hard, non-friable tablets.

SynVidone® K-series enhance the solubility of active pharmaceutical ingredients and increase bioavailability in solid dispersion formulations. They also inhibit recrystallization in liquid soft gels and stabilizing suspensions, dispersions, and emulsions.

SynVidone® K-series low solution viscosity ensures a workable solution viscosity at high polymer levels, making it easy to use in granulation and other manufacturing equipment.

SynVidone®	K12 *	K17 *	K25	K30 *	K90
Appearance	White to slightly creamy white hygroscopic powder or flakes				
K-Value	10.2-13.8	15.3-18.36	22.5-27.0	27-32.4	81-97.2
Molecular Weight	3,000-7,000	10,000-16,000	30,000-40,000	45,000-58,000	1,000,000-1,500,000
Moist (%)	≤5	≤5	≤5	≤5	≤5
pH	3-5	3-5	3-5	3-5	4-7
Peroxide (ppm)	≤400	≤400	≤400	≤400	≤400
Tg (℃)	120	126	160	164	174
Re-Test period	36	36	36	24	24

(* also available in Pyrogen-free version)

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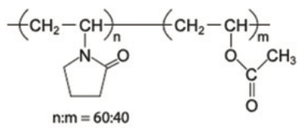
SynVidone® K-series are manufactured under strict cGMP standards. Packaging is takes place under Class D Clean room conditions.

SynVidone® K-series comply with all applicable Pharmacopeial Monographs. Complete Product Specifications and Safety Data Sheets are available on request.

SynVidone®	K12-K17	K25-K30	K90
Main Application	Solubilizer Dispersant Suspension stabilizer Crystallization inhibiter Liquid dosage applications	Wet-granulation binder Film forming Dispersant Suspension stabilizer Solubilizer	Wet-granulation binder Thickener Suspension stabilizer
Tablet	●	●	●
Capsule	●	●	●
Coating	●	●	
Granulation		●	●
Injection	●		
Suspensions	●	●	●
Eyedrops	●	●	●

CoPovidone: SynVidone® VA64

Advantages
- Direct compressing tablets
- Dissolves quickly in water
- Hot melt extrusion



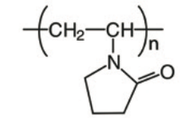
CAS No.: 25086-89-9

SynVidone® VA 64, with its exceptionally high binding capacity, serves as a dry binder for direct compression tableting and a soluble binder for wet granulation. These properties make it an attractive and cost-effective alternative to natural binders. Additionally, due to a lower Glass Transition Temperature (Tg) than SynVidone® K30, it is ideal as a solubilizer in hot-melt extrusion processes.

SynVidone® VA 64 grades appear as white or yellowish-white spray-dried powders with a fine particle size. They have a faint odor and a faint taste in aqueous solutions. These grades comply with all applicable Pharmacopeial Monographs. Complete Product Specifications and Safety Data Sheets are available upon request.

CrosPovidones: PolySynVidone® XL / XL-10

Advantages
- Insoluble
- Super disintegrant
- Swells without gel forming



CAS No.: 25249-54-1

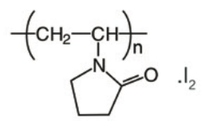
PolySynVidone® XL and XL-10 act as super-disintegrants and dissolution enhancers. These highly functional cross-linked, insoluble PVP polymers ensure that active ingredients are released from any solid dosage form at exceptionally high speed. Additionally, they improve the bioavailability of certain poorly soluble APIs. PolySynVidone® CrosPovidone is available in Type A (larger particles) and Type B (smaller particles).

PolySynVidone® XL and XL-10 are easy to handle during direct compression, wet granulation, and dry granulation tablet production processes. They can act as complexing and stabilization agent for drug ingredients, improving drug bioavailability.

PolySynVidone® XL and XL-10 grades appear as free-flowing white or yellowish-white powders. They have a faint odor. These grades comply with all applicable Pharmacopeial Monographs. Complete Product Specifications and Safety Data Sheets are available upon request.

Povidone-Iodine: SynVidone® I

Advantages
- Broad spectrum disinfection
- Soluble
- Stable complex



CAS No.: 25655-41-8

SynVidone® I is a brown, free-flowing powder that dissolves in water, ethanol, and propanol but is insoluble in acetone, chloroform, methylene chloride, heptane, and hexane. As an antiseptic, PVP-Iodine offers broad-spectrum coverage, demonstrating antiviral, antibacterial, and antifungal activity. It is used in a wide range of pharmaceutical, veterinary, and agricultural applications, including antiseptic surgical and hygienic hand disinfection.

Complete Product Specifications and Safety Data Sheets are available upon request.

Pharmaceutical intermediates and Solvents

GBL γ-butyrolacto	Pharmaceutical intermediates, used to synthesize cyclopropylamine, α-acetyl-γ-butyrolactone (ABL), γ-hydroxybutyric acid, etc.
2P 2- pyrrolidone	•Pharmaceutical intermediates, used to synthesize polymers such as polyvinylpyrrolidone and polypyrrolidone,and the raw material of acetamide pyrrolidone (piracetam) and γ-amino-butyric acid. •Used as solubilizer for durg active in injectable liquid products; •Used as high concentration antibiotic solutions for veterinary parenteral formulations.
NMP N-methylpyrrolidone	Pharmaceutical solvent.

AS THE LEADING SUPPLIER FOR PHARMACEUTICAL AND COSMETIC INDUSTRIES, WE HAVE ESTABLISHED CUTTING-EDGE TECHNOLOGY AND PRODUCTION FACILITIES WHICH ENABLE US TO BETTER SERVE YOU WITH QUALITY SERVICES AS WELL AS QUALITY PRODUCTS.