

JRS PHARMA

The Excipient Family

Product Overview



**The Next Generation of High Functionality
Excipients for Solid Dosage Forms**

Product Overview

A complete listing of products by JRS PHARMA

	Commercial Products	Primary Function	Principle Application	Average Particle Size	Moisture Level	Bulk Density	Monograph Status	Packaging
HIGH FUNCTIONALITY EXCIPIENTS	PROSOLV® SMCC 50 <i>Silicified Microcrystalline Cellulose</i>	High Functionality Binder	Capsules Chewables Coating Direct compression Extrusion/Spheronization Roller compaction Sustained release Wet granulation	45-80 µm	Max. 6.0%	0.25 – 0.37 g/mL	NF	20 kg bag 50 kg drum
	PROSOLV® SMCC 90 <i>Silicified Microcrystalline Cellulose</i>	High Functionality Binder	Capsules Chewables Direct compression Roller compaction Sustained release	90-150 µm	Max. 6.0%	0.25 – 0.37 g/mL	NF	20 kg bag 50 kg drum
	PROSOLV® SMCC HD90 <i>Silicified Microcrystalline Cellulose</i>	High Functionality Binder	Capsules Chewables Direct compression Roller compaction Sustained release	90-160 µm	Max. 6.0%	0.38 – 0.50 g/mL	NF	25 kg bag 50 kg drum
	PROSOLV® SMCC 90LM <i>Silicified Microcrystalline Cellulose</i>	High Functionality Binder	Capsules Chewables Direct compression Roller compaction Sustained release	90-150 µm	Max. 3.0%	0.27 – 0.39 g/mL	NF	50 kg drum
	PROSOLV® ODT G2 <i>Microcrystalline Cellulose, Colloidal Silicon Dioxide, Mannitol, Fructose, Crospovidone</i>	High Functionality Binder	Chewables Direct compression	40-80 µm	Max. 2.5%	0.45 – 0.65 g/mL	Compendial components	25 kg carton 25 kg drum
	PROSOLV® EASYtab <i>Microcrystalline Cellulose, Colloidal Silicon Dioxide, Sodium Starch Glycolate, Sodium Stearyl Fumarate</i>	High Functionality Binder	Capsules Chewables Direct compression Roller compaction Sustained release	90-150 µm	Max. 7.0%	0.30 – 0.42 g/mL	Compendial components	20 kg carton

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HIGH FUNCTIONALITY LUBRICANTS	PRUV® <i>Sodium Stearyl Fumarate</i>	High Functionality Lubricant	Capsules Chewables Coating Extrusion/Spheronization Direct compression Roller compaction Sustained release Wet granulation	Not specified	Max. 5.0%	Not specified	NF, EP, JP	25 kg drum (2 & 5 kg drums avail.)
	LUBRITAB® <i>Hydrogenated Vegetable Oil</i>	Binder Lubricant	Capsules Chewables Direct compression Extrusion/Spheronization Roller compaction Sustained release Wet granulation	Not specified	Max. 0.1%	Not specified	NF, BP, JP	25 kg carton



BINDERS

	Commercial Products	Primary Function	Principle Application	Average Particle Size	Moisture Level	Bulk Density	Monograph Status	Packaging
	EMCOCEL® SP15 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Coating Direct compression Extrusion/Spheronization Oral liquids Roller compaction Sustained release Topicals Wet granulation	12-18 µm	Max. 6.0%	Min. 0.13 g/mL	NF, EP, JP	30 kg drum
	EMCOCEL® 50M <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Coating Direct compression Extrusion/Spheronization Oral liquids Roller compaction Sustained release Wet granulation	45-80 µm	Max. 6.0%	0.25 – 0.37 g/mL	NF, EP, JP	20 kg bag 50 kg drum
	EMCOCEL® 90M <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	90-150 µm	Max. 6.0%	0.25 – 0.37 g/mL	NF, EP, JP	20 kg bag 50 kg drum
	EMCOCEL® XLM90 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	90-150 µm	Max. 1.5%	0.25 – 0.37 g/mL	NF, EP, JP	20 kg carton
	EMCOCEL® LP200 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	135-253 µm	Max. 6.0%	0.20 – 0.37 g/mL	NF, EP, JP	20 kg bag
	VIVAPUR® 12 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	130-230 µm	Max. 7.0%	0.30 – 0.36 g/mL	NF, EP, JP	20 kg carton
	VIVAPUR® 14 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	130-230 µm	Max. 1.5%	0.32 – 0.40 g/mL	NF, EP, JP	20 kg carton
	VIVAPUR® 101 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Coating Direct compression Roller compaction Sustained release Wet granulation	45-80 µm	Max. 7.0%	0.26 – 0.31 g/mL	NF, EP, JP	20 kg carton
	VIVAPUR® 102 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	90-150 µm	Max. 7.0%	0.28 – 0.33 g/mL	NF, EP, JP	20 kg carton

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BINDERS	VIVAPUR® 103 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	45-80 µm	Max. 1.5%	0.26 – 0.34 g/mL	NF, EP, JP	20 kg carton
	VIVAPUR® 105 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Coating Direct compression Extrusion/Spheronization Oral liquids Roller compaction Sustained release Topicals Wet granulation	>32 µm: max. 8.0% (retained on Air Jet sieve)	Max. 7.0%	Max 0.26 g/mL	NF, EP, JP	17.5 kg carton
	VIVAPUR® 112 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	90-150 µm	Max. 1.5%	0.30 – 0.36 g/mL	NF, EP, JP	20 kg carton
	VIVAPUR® 200 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	180-280 µm	Max. 7.0%	0.31 – 0.37 g/mL	NF, EP, JP	20 kg carton
	VIVAPUR® XLM200 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	180-280 µm	Max. 1.5%	0.33 – 0.40 g/mL	NF, EP, JP	20 kg carton
	VIVAPUR® 301 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	45-80 µm	Max. 7.0%	0.35 – 0.46 g/mL	NF, EP, JP	20 kg bag 50 kg drum
	VIVAPUR® 302 <i>Microcrystalline Cellulose</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release	90-150 µm	Max. 7.0%	0.35 – 0.50 g/mL	NF, EP, JP	20 kg bag 50 kg drum
	EMCOMPRESS® <i>Calcium Hydrogen Phosphate Dihydrate Dibasic Calcium Phosphate, Dihydrate</i>	Binder Diluent	Capsules Direct compression Roller compaction Sustained release	>425 µm: max. 2.0% <75 µm: max. 15.0% (measured with Ro-Tap®)	Not specified	Not specified	USP, EP, JP	25 kg bag 55 kg drum
	Andydrous ECOMPRESS® <i>Calcium Hydrogen Phosphate, Anhydrous Dibasic Calcium Phosphate, Anhydrous</i>	Binder Diluent	Capsules Direct compression Roller compaction Sustained release	>150 µm: 40-80% >45 µm: max. 5.0% (measured with Ro-Tap®)	Not specified	Not specified	USP, EP, JP	25 kg bag



	Commercial Products	Primary Function	Principle Application	Average Particle Size	Moisture Level	Bulk Density	Monograph Status	Packaging
BINDERS	EMDEX® <i>Dextrates</i>	Binder Diluent	Capsules Chewables Direct compression Oral liquids Roller compaction Sustained release	>850 µm: max. 3.0% <150 µm: max. 25.0%	7.8 – 9.2%	0.68 – 0.83 g/mL	NF	22.7 kg bag
	EMDEX® Non GMO <i>Dextrates</i>	Binder Diluent	Capsules Chewables Direct compression Oral liquids Roller compaction Sustained release	>850 µm: max. 3.0% <150µm: max. 25.0%	7.8 – 9.2%	0.68 – 0.83 g/mL	NF	25 kg bag
	COMPACTROL® <i>Calcium Sulfate Dihydrate</i>	Binder Diluent	Capsules Chewables Direct compression Roller compaction Sustained release Wet granulation	<425 µm: min. 98.0% >106 µm: min. 85.0%	19.0 – 23.0%	Max 1.10 g/mL	NF, EP	25 kg bag
	Commercial Products	Primary Function	Principle Application	Average Particle Size	Moisture Level	Bulk Density	Monograph Status	Packaging
FUNCTIONAL FILLERS	ARBOCEL® M80 <i>Powdered Cellulose</i>	Binder Disintegrant Diluent	Capsules Chewables Direct compression Extrusion/Spheronization Oral liquids Roller compaction Wet granulation	>32 µm: max. 75.0% >63 µm: max. 45.0% >125 µm: max. 5.0%	Max. 6.5%	200 – 240 g/L	NF, EP, JP	20 kg bag
	ARBOCEL® P290 <i>Powdered Cellulose</i>	Binder Diluent	Capsules Direct compression Extrusion/Spheronization Oral liquids Roller compaction Wet granulation	>32 µm: min. 50.0% >75 µm: max. 30.0% >250 µm: max. 1.0%	Max. 6.5%	270 – 330 g/L	NF, EP, JP	20 kg bag
	ARBOCEL® A300 <i>Powdered Cellulose</i>	Binder Disintegrant Diluent	Capsules Direct compression Extrusion/Spheronization Oral liquids Roller compaction Wet granulation	>400 µm: max. 5.0% >250 µm: max. 75.0% >90 µm: max. 99.5%	Max. 6.5%	310 – 410 g/L	NF, EP, JP	20 kg bag
	Commercial Products	Primary Function	Principle Application	Average Particle Size	Moisture Level	Bulk Density	Monograph Status	Packaging
THICKENERS & STABILIZERS	VIVAPUR® MCG 591 P <i>Microcrystalline Cellulose and Carboxymethylcellulose Sodium</i>	Emulsifier Viscosity modifier	Oral liquids Topicals	>250 µm: max. 0.1% >45 µm: max. 45.0%	Max. 6.0%	200 – 240 g/L	NF, EP	25 kg bag
	VIVAPUR® MCG 611 P <i>Microcrystalline Cellulose and Carboxymethylcellulose Sodium</i>	Emulsifier Viscosity modifier	Oral liquids Topicals	>250 µm: max. 0.1% >45 µm: max. 50.0%	Max. 6.0%	270 – 330 g/L	NF, EP	25 kg bag
	VIVAPUR® MCG 811 P <i>Microcrystalline Cellulose and Carboxymethylcellulose Sodium</i>	Emulsifier Viscosity modifier	Oral liquids Topicals	>250 µm: max. 3.0%	Max. 8.0%	310 – 410 g/L	NF, EP	25 kg bag

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DISINTEGRANTS	EXPLOTAB® <i>Sodium Starch Glycolate</i>	Disintegrant	Capsules Chewables Direct compression Extrusion/Spheronization Roller compaction Wet granulation	<106 µm: min. 99.0%	Max. 10.0%	NF, EP, JP	25 kg carton
	VIVASTAR® P <i>Sodium Starch Glycolate</i>	Disintegrant	Capsules Chewables Direct compression Extrusion/Spheronization Roller compaction Wet granulation	Not specified	Max. 7.0%	NF, EP, JP	25 kg carton
	VIVASTAR® PSF <i>Sodium Starch Glycolate</i>	Disintegrant	Capsules Chewables Direct compression Extrusion/Spheronization Roller compaction Wet granulation	Not specified	Max. 3.0%	NF, EP, JP	25 kg carton
	VIVASOL® <i>Croscarmellose Sodium</i>	Disintegrant	Capsules Chewables Direct compression Extrusion/Spheronization Roller compaction Wet granulation	25-55 µm (d50 laser diffraction)	Max. 10.0%	NF, EP, JP	25 kg carton
	VIVASOL® GF <i>Croscarmellose Sodium</i>	Disintegrant	Capsules Chewables Direct compression Extrusion/Spheronization Roller compaction Wet granulation	>75 µm: max. 2.0% >45 µm: max. 10.0%	Max. 10.0%	NF, EP, JP	25 kg carton
	VIVASOL® GF LM <i>Croscarmellose Sodium</i>	Disintegrant	Capsules Chewables Direct compression Extrusion/Spheronization Roller compaction	>75 µm: max. 2.0% >45 µm: max. 10.0%	Max. 6.0%	NF, EP, JP	25 kg carton
	EMCOSOY® <i>Soy Polysaccharides</i>	Disintegrant	Capsules Chewables Direct compression Extrusion/Spheronization Roller compaction Wet granulation	Not specified	Max. 8.0%	Not specified	20 kg bag



COLORS AND COATINGS

	Commercial Products	Primary Function	Principle Application	Moisture Level	Monograph Status	Packaging
	VIVAPHARM® HPMC E3 <i>Hypromellose</i>	Binder Coating	Coating Extrusion/Spheronization Wet granulation	Max. 5.0%	USP, EP, JP	25 kg carton
	VIVAPHARM® HPMC E5 <i>Hypromellose</i>	Binder Coating	Coating Extrusion/Spheronization Wet granulation	Max. 5.0%	USP, EP, JP	25 kg carton
	VIVAPHARM® HPMC E6 <i>Hypromellose</i>	Binder Coating	Coating Extrusion/Spheronization Wet granulation	Max. 5.0%	USP, EP, JP	25 kg carton
	VIVAPHARM® HPMC E15 <i>Hypromellose</i>	Binder Coating	Coating Extrusion/Spheronization Wet granulation	Max. 5.0%	USP, EP, JP	25 kg carton
	VIVAPHARM® HPMC E50 <i>Hypromellose</i>	Binder Coating	Coating Extrusion/Spheronization Roller compaction Wet granulation	Max. 5.0%	USP, EP, JP	25 kg carton
	VIVACOAT® A <i>Ready-to-use coating system</i>	High functionality Coating High adhesion	Film coating	Max. 8%	Not applicable	25 kg carton
	VIVACOAT® M <i>Ready-to-use coating system</i>	High functionality Coating Moisture barrier	Film coating	Max. 8%	Not applicable	25 kg carton
	VIVACOAT® X <i>Ready-to-use coating system</i>	High functionality Coating Clear coat	Film coating	Max. 8%	Not applicable	25 kg carton
	VIVACOAT® C <i>Ready-to-use coating system</i>	High functionality Coating Customer specific formula	Film coating	Max. 8%	Not applicable	25 kg carton

Product Overview

JRS PHARMA

The Excipient Family ...

...providing innovative products, patented technologies, and technical expertise for pharmaceutical and nutritional industries worldwide.

JRS PHARMA offers the most complete portfolio of high quality excipients and technologies, especially for solid dosage forms.

With our formulation expertise, we partner with our customers to provide them with cost-effective and fast time-to-market solutions.

Bringing Value Through a Dedicated Worldwide Sales Network



JRS PHARMA supplies most major pharmaceutical, nutritional, OTC, and generic companies with high quality MCC and other excipients on a global level.

Use the benefit of a strong, service-oriented partner!

JRS PHARMA



THE EXCIPIENT FAMILY

A Member of the JRS Group

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JRS PHARMA, the Name for Customer Advantages

- Dedicated partner for international companies
- Worldwide distribution and logistics
- Market advantage through an excellent price-performance ratio
- The most experience with cellulosic products
- Innovative partner in R&D and application expertise
- 8 pharma production sites on 3 continents, guaranteeing maximum supply security
- The infrastructure and capacity to provide material globally
- First-class, continuous quality profile in worldwide markets
- Stability embedded in a solid, owner-led company group
- Technical supplier and service provider with 3 Technical Competence Centers (TCCs) on 3 continents
- Partner Network for 3rd party formulation development: S. Zhaveri, India – an associate of JRS PHARMA

JRS PHARMA offers:

Excipients

Family of High Functionality Excipients

The Next Generation of Modern Excipients:

PROSOLV® EASYtab

Microcrystalline Cellulose, Colloidal Silicon Dioxide, Sodium Starch Glycolate, Sodium Stearyl Fumarate
All-in-One, Ready-to-Use Excipient Composite:
Binder/Filler, Glidant, Superdisintegrant, Lubricant

PROSOLV® ODT G2

Microcrystalline Cellulose, Colloidal Silicon Dioxide, Mannitol, Fructose, Crospovidone
ODT Excipient Matrix - License and Royalty Free

PROSOLV® SMCC

Silicified Microcrystalline Cellulose
High Functionality Excipient Line

Binders

VIVAPUR®, EMCOCEL®

Microcrystalline Cellulose

EMCOMPRESS®

Calcium Hydrogen Phosphate Dihydrate and Anhydrous Dibasic Calcium Phosphate Dihydrate and Anhydrous

EMDEX®

Dextrates

COMPACTROL®

Calcium Sulfate Dihydrate

Superdisintegrants

VIVASTAR®, EXPLOTAB®

Sodium Starch Glycolate, Sodium Carboxymethyl Starch

VIVASOL®

Croscarmellose Sodium

EMCOSOY®

Soy Polysaccharides

Lubricants + Modified Release

PRUV®

Sodium Stearyl Fumarate

LUBRITAB®

Hydrogenated Vegetable Oil, Hydrogenated Oil

Functional Fillers

ARBOCEL®

Powdered Cellulose

Thickener + Stabilizer

VIVAPUR® MCG

Microcrystalline Cellulose and Carboxymethylcellulose Sodium

Carriers

VIVAPUR® MCC SPHERES

Microcrystalline Cellulose Pellets

NON-PAREIL SEEDS

Sugar Spheres

Coatings

VIVACOAT®

Ready-to-Use Coating System

VIVAPHARM® HPMC

Hypromellose

Technology

PROSOLV®

TECHNOLOGY

Co-Processing of Actives

Members of the JRS Pharma Family

Biotechnology

NEW

R&D Services

contract research, India

celonic

ProJect

