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**Barentz Distribution India Pvt. Ltd.**

# Excipients for enhancing the performance of formulations!



# EXCIPIENT RANGE FROM BARENTZ DISTRIBUTION INDIA PVT. LTD.- AN OVERVIEW

Function	Products	Pharmacopoeial Name / Status	Application Guidelines
<b>SOLID ORALS</b>			
<b>WET GRANULATION</b>			
BINDERS	Povidone K-15 Povidone K-25 Povidone K-30 Povidone K-90 & K90 Coarser	Povidone USP/NF, Ph. Eur, JP, IP	Low molecular weight, especially used for parenteral preparation Low molecular weight compared to K30, but viscosity similar to K30 Improves dissolution, used as a binder for drug loading on pellets Binder for modified release tablets, for poorly compressible API's and Herbal drugs where there is little space for excipients
	Copovidone VA64	Copovidone USP/NF, Ph.Eur, JP	For moisture sensitive API
	AnyCoat® C AN3, AN4, AN5, AN6, AN15, AN50	Hypromellose (HPMC) USP/NF, EP, JP, KP	Enhances tablet hardness with improved binding property
	UNIPURE™ F	Corn Starch	Diluent
	Purity™ 21 A	USP/NF, Ph. Eur, JP	Distribution of potent API and colour
	UNIPURE™ WG 220	Pregelatinized Starch USP/NF, Ph. Eur	Also a disintegrant at 5-10% of tablet weight, when added in lubrication
DILUENTS	ARMOR PHARMA™ Lactose monohydrate 200M Lactose monohydrate 150M Lactose monohydrate 350M Lactose monohydrate 450M Lactose monohydrate 201 Lactose monohydrate 231	Lactose Monohydrate USP/NF, Ph. Eur, JP	Improves the wettability of hydrophobic API Coarser grade of milled lactose for micronized API Wet and dry granulation, fermentation process Micronized Lactose, improves blending Milled Lactose, Wet and Dry granulation Milled Lactose, Wet and Dry granulation
	Comprecel® M101 Comprecel® M101LD	Microcrystalline Cellulose USP/NF, Ph. Eur, JP	First choice for granulation Low density, High Compactability, High dose formulation and Heat sensitive API
	Comprecel® M105 Comprecel® M113 Comprecel® M301		Micronized grade, as spheronizing aid and improves hardness of tablets Low moisture grade for non-aqueous granulation High bulk density for small tablets
	Comprecel® SMCC 50	Silicified Microcrystalline Cellulose NF/JPE	Excellent Compactability also after wet granulation Improved blending property
	Mannogem® Emerald Mannogem® Onyx Mannogem® Powder	Mannitol USP/EP Mannitol USP/EP Mannitol USP/EP	Particle size D50 25 microns, also for oral care Particle size D50 50 microns, also for oral care Particle size D50 160 microns,also for oral care
<b>DIRECT COMPRESSION</b>			
BINDERS	Copovidone VA64	Copovidone USP/NF, Ph. Eur, JP	2-5% of tablet weight. Less hygroscopic as compared to Povidone. Solid Dispersion by Melt extrusion
	Partially Pregelatinized Starch	Partially Pregelatinized Starch USP	Effective binder for Fluid Bed Processor Eliminates the use of superdisintegrant
DILUENTS/ BINDERS/ DISINTEGRANTS	Comprecel® M102 Comprecel® M112 Comprecel® M200/200LM Comprecel® M212 Comprecel® M302	Microcrystalline Cellulose USP/NF, Ph. Eur, JP	First Choice for DC granules Moisture sensitive API. LOD less than 1.5% Coarsest material, used to improve the flow of micronized API Coarser grade, used to improve the flow and compressibility Higher bulk density grade, reduces the thickness of tablets
	Comprecel® SMCC 90 Comprecel® SMCC 90 HD	Silicified Microcrystalline Cellulose NF/JPE Silicified Microcrystalline Cellulose NF/JPE	Excellent Compactability with superior flow properties with Higher Bulk Density, For moisture sensitive formulations
DILUENTS	EXCIPRESS™ GR150 EXCIPRESS™ SD2L	Agglomerated Lactose Monohydrate USP/NF, Ph. Eur, JP Spray Dried Lactose Monohydrate USP/NF, Ph. Eur, JP	Uniform particle size and good compressibility Capsule and Sachet filling Spray Dried Lactose with good flowability and compressibility
	Lactose monohydrate 80M	Lactose Monohydrate USP/NF, Ph. Eur, JP, IP	Sieved Lactose for sachets and capsules
	Mannogem® XL Ruby Mannogem® 2080 Mannogem® Granular Mannogem® EZ	Mannitol USP/EP	Agglomerated mannitol D50 250 microns Agglomerated mannitol D50 320 microns Agglomerated mannitol D50 480 microns Spray dried mannitol D50 125 microns

## DIRECT COMPRESSION

DILUENTS	Mannogem® XL Mannozem® XL Opal Advantose® 100 Effer-Soda®	Maltose USP/EP Modified Sodium Bicarbonate	Spray dried mannitol D50 125 microns, superior compactability Spray dried mannitol D50 160 microns Spray dried, Desirable mouthfeel, Improves tabletting of low density materials To stabilise Effervescent formulation of tablets and sachets
DILUENTS/BINDERS/ DISINTEGRANTS	Advantol® 300	Coprocessed Excipient with Polyols	For fast melt and soft chew delivery system
	PharmaBurst® 500	ODT platform Technology	Excellent mouthfeel, Improved Drug loading
	Ultraburst®	ODT Platform Technology	Excellent mouthfeel with faster Disintegration time
DILUENTS/BINDERS	Advantose® FS 95	Coprocessed Excipient with Fructose	Used to mask undesirable flavors, Excellent flow and good compressibility
	Compressol® SM	Sorbitol and Mannitol	High API and improves compressability. For Effervescent and chewable tablet
DIRECTLY COMPRESSIBLE GUM BASE COMPOUNDS	HiG - Health in Gum® HiG® PWD 01 HiG® PWD 03 HiG® PWD 04	Gum Base, Polyols, Softeners, Anti-caking agent	Novel dosage form, excellent flow and easy to tablet Directly compressible, ideal for moisture sensitive API

## DRY GRANULATION

DILUENTS	ARMOR PHARMA™ Lactose monohydrate 200M Lactose monohydrate 150M Lactose monohydrate 201 Lactose monohydrate 231	Lactose Monohydrate USP/NF, Ph. Eur, JP	Improves dissolution by improving wettability of API Coarser grade for uniform distribution of micronized API
	Mannogem® Emerald Mannogem® Onyx Mannogem® Powder	Mannitol USP/EP Mannitol USP/EP Mannitol USP/EP	Used for hydrophobic API to improve dissolution of API Improves the dissolution by increasing wettability of API
DILUENTS/BINDERS/ DISINTEGRANTS	Comprecel® M101	Microcrystalline Cellulose USP/NF, Ph. Eur, JP	Improves the compressibility of slugs for poorly compressible API
	Comprecel® M101LD		Low density, High Compactability, High dose formulation and Heat sensitive API
	Comprecel® M105		Improves the compressibility of slugs for poorly compressible API
	Comprecel® M113		For moisture sensitive API
	Comprecel® M301		To increase the bulk density of the granules
	Comprecel® SMCC 50	Silicified Microcrystalline Cellulose NF/JPE	Excellent Compactability and Improved blending property
BINDER	Copovidone VA64	Copovidone USP/NF, Ph. Eur, JP	For moisture sensitive API as less Hygroscopic
	AnyCoat® C	Hypromellose (HPMC)	
	AN3, AN4, AN5, AN6, AN15, AN50	USP/NF, EP, JP, KP	To improve the compressibility of slugs of poorly compressible API
	Partially Pregelatinized Starch	Partially Pregelatinized Starch USP	As a diluent and disintegrant

## WET / DRY / DIRECT COMPRESSION

SUPER DISINTEGRANTS	Crospovidone XL Crospovidone XL10 Disolcel® DST®	Crospovidone Type A Crospovidone Type B USP/NF, Ph. Eur, JP, IP Crocarmellose Sodium USP/NF, Ph. Eur, JP Sodium Starch Glycolate USP/NF, Ph. Eur, JP	Due to its rapid disintegrating properties, it is used in dispersible tablets Improves dissolution of poorly soluble and cationic drugs Forms solid dispersion by hot melt extrusion Improves dissolution as it disintegrates rapidly Concentration of 0.5-5% of tablet weight and for capsules: 10-25% Expands 25 times by rapid water absorption Reduces negative disintegration effect of hydrophobic lubricants
DISINTEGRANTS	Partially Pregelatinized Starch	Partially Pregelatinized Starch USP	Diluent and a binder with self lubricating properties Low moisture grade with LOD <2%
	UNIPURE™ FL (Low Moisture)	Corn Starch USP/NF, Ph. Eur, JP	5-10% of tablet weight and upto 90% of blend weight in capsules Moisture content <2.0% As an intra and extra granular disintegrant
LUBRICANT	Lubripharm®	Sodium Stearyl Fumarate NF/EP/JP	Less hydrophobic lubricant and for API incompatible with metallic salts
	HMFSIL 200 P	Colloidal Silicon Dioxide USNF Silica Colloidal anhydrous EP	Improves compressibility flow aid
SOLUBILIZER	Copovidone VA64	Copovidone VA64 USP/NF, Ph. Eur, JP, IP	As a solubilizer to increase the solubility of API in hot melt extrusion

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<b>FILM COATING</b>			
FILM COATING POWDER	AnyCoat®C AN4, AN5, AN6, AN15	Hypromellose (HPMC) USP/NF, EP, JP, KP	Film is transparent with high tensile strength
	Ethyl Cellulose MP 7, MP 10	Ethyl Cellulose USP/NF, EP, JP	Moisture barrier coat for sugar & film coating
	Polyvinyl Alcohol	Polyvinyl Alcohol USP/NF, EP	Moisture barrier film coating
<b>CAPSULES</b>			
SHELL POLYMER	AnyCoat®C AN3, AN4, AN5, AN6, AN50	Hypromellose (HPMC) USP/NF, EP, JP, KP	Excellent film forming with good tensile strength and low oxygen permeability
PLASTICIZER	Sorbitol Special®	Sorbitol Sorbitan Solution USP/NF	For more hydrophilic and PEG fill in Soft gel capsules
	Sorbitol Special® MDF 85	Sorbitol Sorbitan Solution USP/NF	Improves stability of softgel capsules
	Sorbitol Special® A810	Sorbitol Sorbitan Solution and Glycerine	For very viscous fills in Softgel Capsules
CAPSULES/SACHETS	Xanthan Gum Pharma Grade 200 mesh Pharmasperse® 416	Xanthan Gum USP/NF, Ph. Eur Orally Dispersible powder	Hydrophilic Controlled Release System, in conjunction with other hydrophilic polymers Diluent for mouthfeel and easy dispersiblity. Uniform blending with API
<b>MODIFIED RELEASE FORMULATION</b>			
POLYMERS	AnyCoat®C CN10M, CN40H, CN15U, CN10T	Hypromellose (HPMC) USP/NF, EP, JP, KP	Hydrophilic matrix system for wet granulation to control drug release pattern
	AnyCoat®C CN10M Plus, CN40H Plus, CN15U Plus, CN10T Plus	Hypromellose (HPMC) USP/NF, EP, JP, KP	Hydrophilic matrix system for directly compressible control drug release pattern
	AnyCoat®P HP-50 & HP-55	Hypromellose (HPMCP) USP/NF, EP, JP, KP	Delayed release system, pH dependant release, used as enteric polymer
	Ethyl Cellulose 4, 7,10,20,45,100 cps	Ethyl Cellulose USP/NF, EP, JP	Moisture coating/ Binder/Extended release Microencapsulation
	Polyvinyl Alcohol	Polyvinyl Alcohol USP/NF, EP	Extended release
	Sodium Alginate	Sodium Alginate USNF, Ph.Eur	Microencapsulation, Viscosity (2.5%) 200-400 cps, CR formulation
	Copovidone VA64 (Low Tg ) Polyethylene Oxide	Copovidone USNF/Ph.Eur/JPE Polyethylene Oxide USP, EP	For Melt extrusion Modified Release, OROS, Molecular weight 100,000 to 7000,000 gm/mole
<b>LIQUID ORALS</b>			
THICKENERS & SUSPENSION STABILIZERS	Povidone K30/K90	Povidone USP/NF, Ph. Eur, JP, IP	Surface active properties, taste masking, solubility enhancer
	Neocel®	Colloidal MCC USP/NF, EP, BP, JP	Forms thixotropic gel at >1.2% , suspending agent; emulsion stabilizer; gelling agent;
	C 08/C 11/C 81/C 91/ C61/C20 Neocel Spray Dried Grades		C61 easily activated, C20: highest Sodium CMC content and lowest viscosity Easy to Disperse than Normal Grades
	Xanthan Gum Pharma Grade 80 mesh and 200 mesh	Xanthan Gum USP/NF, Ph. Eur	Suspending agent for conventional, dry and sustained release suspensions
	Crospovidone SL	Crospovidone Type B USP/NF, Ph. Eur, JP, IP	Dispersing agent, stabilizer for dry syrup, oral suspension, taste masking
	AnyCoat®C CN10M, CN40H BN40H, AN3, AN4, AN5, AN6	Hypromellose (HPMC) USP/NF, EP, JP, KP	Thickener, Viscosity exponentially increases with concentration Suspending aid Suspending agent in dry syrups for Dispersing Agent
	HMSIL 200	Colloidal Silicon Dioxide USNF Silica Colloidal anhydrous EP	Improves dispersion of Active and oil adsorption in suspension and emulsion
	Sodium Alginate	Sodium Alginate USNF/Ph.Eur	Thickening agent/ Antacid for Raft formation

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EMULSIFICATION STABILIZER	Polyvinyl Alcohol	Polyvinyl Alcohol USP/EP	Stabilizing agent for emulsions Viscosity: 20-26 (mPa s) Viscosity: 44-56 (mPa s)
SWEETENING AGENTS	Sodium Saccharin	Sodium Saccharin	Different particle size to suit the need of the formulation
	Hydrated 6% /15%	USP/NF, Ph. Eur	40-60 mesh and 80-120 mesh
	Acid Saccharin	Saccharin USP, EP, JP	Water insoluble grade. Readymix suspensions. Chewable tablets
	Sodium Cyclamate	Sodium Cyclamate USP, EP, JP and BP	Anhydrous and hydrated form available
	Cyclamic Acid	Cyclamic Acid Ph. Eur	Readymix suspensions/Oil based preparations
	Sucratose	Sucratose USP/NF, EP, FCC	320-1000 times sweeter than sugar, stable under heat and over a wide range of pH
FLAVOURING AGENTS	Capsudx®	Menthol Derivatives	Taste masking and 25% more cooler than Menthol

## STERILE PREPARATIONS

DILUENT	EXCIPURE™ DPI 111 DPI 222 DPI 223 DPI 231	Lactose Monohydrate USP/NF, Ph. Eur, JP	Low endotoxin Lactose for Dry Powder Inhalation Can be customized
VISCOSITY ENHANCER	Polyvinyl alcohol	Polyvinyl alcohol USP-NF/EP	Viscosity-increasing agent for ophthalmic products Viscosity: 4.5-6 (mPa s)

## ORAL CARE

COOLING AGENT	Coolstrip® Capsudx®	Proprietary blend	Cooling and decorative In Cosmeceuticals and Oral care In Cosmeceuticals and Oral care
CARRIER	Glowspheres®	Proprietary blend	Delivery System For Oil Soluble Actives in clear gel & Aesthetics
THICKENING AGENT	Carrageenan Xanthan Gum	Carrageenan USP/ Ph.Eur/JP/IP	In Toothpaste as a Thickner In Oral Care as Thickener, CF & AF grade available

\*We have separate brochures for Personal Care, Food & Nutraceutical Ingredients

## NOTES

# OUR PARTNERS



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Partnering innovation, adding value.

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