



# SPI Pharma™

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*Distributes specialty excipients, actives, and formulations for the food, pharmaceutical, and animal health markets in Australia and New Zealand*

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Standard Specifications, although current at the time of publication, are subject to change without notice. For latest Standard Specifications contact SPI Pharma™.

# *SPI Pharma*<sup>TM</sup>

Formulating Success Through Innovation



Products and Services

SPI Pharma is a global leader in providing innovative formulation solutions to the pharmaceutical industry through a broad line of products and services. Our major offerings are excipients for direct compression tablets and soft gels, drug delivery systems and services for oral dosage forms, and antacid actives for immediate relief. We sell in over 55 countries, supporting both multinational and regional marketers and product developers. SPI's manufacturing assets, R&D laboratories and sales staff are strategically positioned in North and South America, Europe, Middle East, Africa and Asia Pacific enabling us to support customers in a timely manner. All of our products are manufactured under the highest cGMP standards mandated by customers and health authorities in the USA and Europe. Our core skills are in developing highly engineered functional materials and customizing solutions that enable customers to differentiate, gain speed to market and lower their total cost of manufacturing.

SPI Pharma's offerings are designed to provide superior value in the following applications:

- Quick dissolve formulations: DC Tablets and Lyophilized Wafers
- Chewable formulations
- Effervescent systems
- Soft Gel systems
- Suspensions and solutions
- Directly compressible chewing gums
- Resuspendable powders
- Fully formulated antacid suspensions and direct compression powders for immediate relief
- Taste masking of API
- Drug Development Services in support of US FDA, European and other regulatory filings

SPI Pharma appreciates the opportunity to partner with you and enable you to offer more compelling solutions to the consumer.



## Excipients

Product Name	Description	DC	Typical Properties	Key Feature
<i>Effervescent Powder</i>				
<b>Effer-soda™ *</b>	Treated sodium bicarbonate	X	8-12% sodium carbonate	Highly stable base for effervescent tablets and sachets
<i>Fructose &amp; Maltose Powder</i>				
<b>Advantose™ 100</b>	Spray-dried maltose	X	90% <250µ: 55% >74µ	Compressible, free flowing powder
<b>Advantose™ FS 95</b>	95% fructose / 5% starch	X	150 - 400µ	High sweetness and solubility
<i>Liquid Sorbitol</i>				
<b>Sorbitol Special™ *</b>	Sorbitan sorbitol solution		76% Solids	Soft Gel plasticizer for good stability
<i>Lubricant</i>				
<b>Lubripharm® SSF</b>	Sodium stearyl fumerate		Specialty lubricant	Low hydrophobic lubricant
<i>Mannitol*</i>				
<b>Compressol® SM</b>	Co-processed polyol	X	80µ - 120µ	Superior compactibility, high active loading
<b>Mannogem™ 2080</b>	Granular mannitol	X	200µ - 590µ	Good mouthfeel and dissolution profile
<b>Mannogem™ AG</b>	Granular mannitol	X	100µ - 700µ	Good mouthfeel and dissolution profile
<b>Mannogem™ EZ</b>	Spray dried mannitol	X	80µ - 120µ	Excellent compactibility, mouthfeel and content uniformity
<b>Mannogem™ Granular</b>	Granular mannitol	X	170µ - 1190µ	Soluble, 50% as sweet as sucrose
<b>Mannogem™ Powder</b>	Mannitol powder		100% <150µ	Nonhygroscopic, inert
<b>Mannogem™ Powder PF</b>	Mannitol powder PF		100% <150µ	Pyrogen Free
<i>Sorbitol</i>				
<b>Sorbitab™ SD 250</b>	Spray-dried sorbitol	X	Avg. 250µ	Excellent flow and compactability
<b>Sorbitab™ SD 500</b>	Spray-dried sorbitol	X	Avg. 500µ	Excellent flow and compactability
<i>Specialty Binders/Buffers</i>				
<b>CS 90/CS 90L</b>	90% cal carb /10% starch	X	Low lead available (<250 ppb)	Smooth mouthfeel, high compressibility
<b>MS 90/MS 90L</b>	90% Mg(OH) <sub>2</sub> /10% starch	X	Low lead available (<250 ppb)	Excellent flow, compactibility



## Drug Delivery Systems

Product Name	Description	DC	Typical Properties	Key Feature
<i>Drug Development Services</i>				
<b>Pharmafreeze™</b>	Lyophilized wafers		Dissolves in <5 seconds	Customized for drugs, turnkey, cGMP
<b>Pharmasolutions™</b>	Develop/test drug formulations		ICH stability, dissolution and RS	Uses SPI delivery systems
<b>Pharmasperse™</b>	Resuspendable powder		Free flowing powder	Customized formulation for drugs
<i>Delivery Platforms</i>				
<b>Advantol™ 300</b>	Soft-melt nutraceutical binder	X	70-200µ	Made with Food Codex ingredients
<b>Pharmaburst™ C1</b>	Quick dissolve excipient	X	80 - 150µ, DT~ 30 sec.	High active loading, cGMP, Patented
<b>Pharmacaps™</b>	Taste-masked APIs	X	Microencapsulated APIs	Made only for use with SPI Delivery System
<b>Pharmagum™ M</b>	Chewing gum powder	X	30% gum base	High Compactability, Patented, cGMP

\* Custom grades of standard products developed upon request.  
DC: Directly compressible grade



# Barcroft™ Antacid Actives

Product Name	Description	DC	Typical Properties	Key Feature
<b>Formulated Products</b>				
<i>Coblend Suspension*</i>				
AMS 138	Al/Mg/sorbitol		Custom composition	Preformulated, ready-to-use suspension
<i>Directly Compressible Powders*</i>				
AHMH 3535	Al/Mg/binders	X	Custom composition	Preformulated for antacid tablets, improved mouthfeel
CS 90/CS 90L	90% cal carb /10% starch	X	Low lead available (<250 ppb)	Smooth mouthfeel, high compressibility
MS 90/MS 90L	90% Mg(OH) <sub>2</sub> /10% starch	X	Low lead available (<250 ppb)	Excellent flow, compactibility
SIM DC 100	Simethicone	X	Simethicone/silica	60-70% simethicone
<b>Standard Products</b>				
<i>Aluminum Hydroxide Gels</i>				
Hyper 10	10% Al <sub>2</sub> O <sub>3</sub>		Viscosity: <700 cps. as is	Pumpable
LV 13	13% Al <sub>2</sub> O <sub>3</sub>		Viscosity: <700 cps. as is	Low lead/low sodium/pumpable
Visco 9	9% Al <sub>2</sub> O <sub>3</sub>		Viscosity: >1000 cps. (Viscosities at 4% Al <sub>2</sub> O <sub>3</sub> :TS)	Self suspending viscous gel
Visco 10	10% Al <sub>2</sub> O <sub>3</sub>		Viscosity: >1000 cps.	Self suspending viscous gel
<i>Aluminum Hydroxide Powders</i>				
0200	>76.5% Al(OH) <sub>3</sub>		Density: 0.2 gm/cc	High surface area
0250	>76.5% Al(OH) <sub>3</sub>		Density: 0.25 gm/cc	Low surface area
0300	>76.5% Al(OH) <sub>3</sub>		Density: 0.3 gm/cc	High surface area
0312	>76.5% Al(OH) <sub>3</sub>		Density: 0.5 gm/cc	Free flowing, high density
0325	>76.5% Al(OH) <sub>3</sub>		Density: 0.3 gm/cc	Low surface area
<i>Magnesium Hydroxide Pastes</i>				
Flogel	30% Mg(OH) <sub>2</sub>		Visc: <100 cps.	Pumpable paste
Flogel 16	16% Mg(OH) <sub>2</sub>		Visc: <10000 cps. as is (Viscosities at 7.75% Mg(OH) <sub>2</sub> :TS)	Pumpable magnesium with sorbitol
Paste LVM	30% Mg(OH) <sub>2</sub>		Visc: 800-1800 cps.	Low sodium/low lead
Type M (standard)	30% Mg(OH) <sub>2</sub>		Visc: 1400-3000 cps.	No suspending agent needed
VLVM	45% Mg(OH) <sub>2</sub>		Visc: <100 cps.	Cost effective
VLVM CG	45% Mg(OH) <sub>2</sub>		Visc: <100 cps.	Low lead
<i>Magnesium Hydroxide Powders</i>				
5100 CG	95-100% Mg(OH) <sub>2</sub>		Surface area: 32 m <sup>2</sup> /g	Low lead, USP, <125 ppb
5200M	95-100% Mg(OH) <sub>2</sub>		Surface area: 65 m <sup>2</sup> /g	Resuspendable powder, USP
5300D	95-100% Mg(OH) <sub>2</sub>		Surface area: 35 m <sup>2</sup> /g	Cost effective
5110	95-100% Mg(OH) <sub>2</sub>		Particle size: <15μ	Micronized powder
5111	95-100% Mg(OH) <sub>2</sub>		Particle size: <10μ	Ultra-micronized
5112	95-100% Mg(OH) <sub>2</sub>	X	Particle size: 70% >150μ	Chilonated/high density
MS 90/MS 90L	Magnesium hydroxide powder	X	90% Mg(OH) <sub>2</sub> /10 starch	Smooth mouthfeel and highly compactable
<i>Specialty Products</i>				
AHMC	Al/mag/carbonate	X	Co-dried	Preformulated for antacid tablets and suspensions
Aluminum Phosphate	20% ALPO <sub>4</sub>		Viscosity: 100 - 700 cps.	Pumpable
Boehmite NLP 14 (Gel)	Aluminum hydroxide		14% Al <sub>2</sub> O <sub>3</sub>	Pumpable, colloid gel
Magaldrate Gel	Al/mag hyd sulfate		10% & 20% Assay	Very low sodium
Magaldrate Powder	Al/mag hyd sulfate		Spray Dried Powder	Resuspendable
<i>Vaccine Support</i>				
VAC 15	Aluminum Hydroxide		1.5% Al <sub>2</sub> O <sub>3</sub>	Protein absorption for vaccines
VAC 20	Aluminum Hydroxide		2.0% Al <sub>2</sub> O <sub>3</sub>	Protein absorption for vaccines
VAC 30	Aluminum Hydroxide		3.0% Al <sub>2</sub> O <sub>3</sub>	Protein absorption for vaccines

\* Custom grades of standard products developed upon request.

Viscosity, density, and particle size data meant as informational only; see spec sheet for more detail.

