



## *Our principals for pharma specialities*



*DOW CORNING*



# Content

<b>Active Pharmaceutical Ingredients</b>	4
<b>Avesta Pharma</b>	4
Macrogol	4
<b>Dow Corning®</b>	4
Simeticone and Emulsion	4
Dimeticone Fluid	4
<b>Tereos Starch &amp; Sweeteners</b>	5
Glucose Monohydrate Injectable Grade	5
<b>Pharmaceutical Excipients</b>	5
<b>Avesta Pharma</b>	5
Macrogol	5
<b>Tereos Starch &amp; Sweeteners</b>	6
Starch	6
Dextrose/Glucose	6
Maltodextrin	6
Polyoles	7
<b>Tereos Sugar France</b>	7
Sucrose	7
Sucrose with functional additives	8
<b>Lubricants</b>	8
Stearates	8
<b>CPKelco - Cellulose Derivative</b>	8
Carmellose Sodium	8
<b>CPKelco - Biogums</b>	9
Xanthan gum	9
Pectine	9
Carrageenan	9
Gellan Gum	10
<b>Yung Zip</b>	10
Sodium Starch Glycolate	10
<b>Dow Corning® - Silicones</b>	10
Fluids	10
Volatiles and Cyclics	11
Waxes	11
Blends	11
Emulsifiers	11
<b>Petroleum Jellies</b>	12
<b>Dow Corning® - Topical Ingredients</b>	12
Low volatile fluids	12
Fluids	12
Speciality Fluids	13
Blends	13
Waxes	13
Emulsifier	14
Resins	14
<b>WNC – Ingredients</b>	14
Topical Ingredients	14
Functional Ingredient Blends	14

# Active Pharmaceutical Ingredients

## Avesta Pharma

### Macrogol

Product	Description	Grade
<b>Macrogol 3350</b>	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)
<b>Macrogol 4000</b>	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP) application in preparation

- Active for laxatives
- ICH Q7 GMP
- EDMF Macrogol 3350 available, EDMF Macrogol 4000 in preparation

## Dow Corning®

### Simeticone and Emulsion

Product	Description	Grade
<b>Q7-2243 LVA, Simethicone USP</b>	Silicone antifoam Low volatile	Simeticone EP Certificate of suitability (CEP) Simethicone USP; US-DMF
<b>Antifoam M Compound</b>	Silicone antifoam Low volatile	Simeticone EP Certificate of suitability (CEP)
<b>Q7-2587 30% Simethicone Emulsion USP</b>	Emulsion containing 30 % simeticone	Simethicone Emulsion USP
<b>7-9255 30% Simethicone Emulsion USP</b>	Emulsion containing 30 % simeticone	Simethicone Emulsion USP

- Active for prescription/OTC/medical device antifatulents
- Foam control in medical and pharmaceutical applications
- Process aid for biofermentation
- ICH Q7 GMP
- FDA registered production site

### Dimeticone Fluid

Product	Description	Grade
<b>Q7-9120 Silicone Fluid</b> 20 cSt 100 cSt 350 cSt 1000 cSt 12500 cSt	Polydimethylsiloxane, PDMS Dimeticone	Dimeticone EP Certificate of suitability (CEP) Dimeticone NF; US-DMF

- Active for prescription/OTC/medical device antifatulents
- ICH Q7 GMP
- FDA registered production site

## **Tereos Starch & Sweeteners**

### **Glucose Monohydrate Injectable Grade**

<b>Product</b>	<b>Description</b>	<b>Grade</b>
<b>Meridex™</b>	Glucose monohydrate Tested on bacterial endotoxin (L.A.L test)	Dextrose USP/NF Glucose Monohydrate EP
<b>Meridex™ PF</b>	Glucose monohydrate Tested on pyrogens (Ph. Eur.)	Dextrose USP/NF Glucose Monohydrate EP

- Parenteral nutrition, infusion solutions, haemodialysis (HD) and peritoneal dialysis (PD)
- Matches key properties such as purity, flowability and product stability during processing

## **Pharmaceutical Excipients**

### **Avesta Pharma**

#### **Macrogol**

<b>Product</b>	<b>Description</b>	<b>Grade</b>
<b>Macrogol 200</b>	Polyethylene glycol, PEG	NF
<b>Macrogol 400</b>	Polyethylene glycol, PEG	EP/NF
<b>Macrogol 3350</b>	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)
<b>Macrogol 4000</b>	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP) application in preparation
<b>Macrogol 6000</b>	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)
<b>Macrogols under development 300/600/1000/8000</b>	Polyethylene glycol, PEG	EP/NF

- Solubility enhancer, non-alcohol diluent
- Filler
- ICH Q7 GMP

## Tereos Starch & Sweeteners

### Starch

Product	Description	Grade
<b>Meritena 141 Pharma</b>	Maize starch powder/ Corn starch	Maize Starch EP Corn Starch NF

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Solid dosage forms, direct compression, capsules and powders
- Medicated confectionery, hard boiled candies, gums, chewing gums

### Dextrose/Glucose

Product	Description	Grade
<b>Meritose Pharma</b>	Dried D-glucose/dextrose powder- Dextrose monohydrate Range of specific particle sizes	Glucose Monohydrate EP Dextrose USP/NF
<b>Mylose Pharma</b>	Glucose syrup Dextrose equivalent and sugar spectrum	Glucose Liquid EP Liquid Glucose USP/NF
<b>Glucomalt Pharma</b>	Glucose syrup Dextrose equivalent and sugar spectrum	Glucose Liquid EP Liquid Glucose USP/NF
<b>Glucodry G Pharma</b>	Glucose syrup spray-dried Dextrose equivalent and sugar spectrum	Glucose liquid spray-dried EP

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Solid dosage forms, direct compression, wet and dry granulation, capsules and powders
- Liquid dosage forms, syrups, solutions, suspensions
- Medicated confectionery, hard boiled candies, gums, chewing gums

### Maltodextrin

Product	Description	Grade
<b>Maldex Pharma</b>	Spray-dried maltodextrin powder- Range of specific particle sizes	Maltodextrin EP, USP/NF
<b>Maldex G Pharma</b>	Spray-dried maltodextrin granulate Range of specific particle sizes	Maltodextrin EP, USP/NF

- Quality system based on IPEC-PQG GMP guidelines for pharmaceutical excipients
- Solid dosage forms, direct compression, wet and dry granulation, capsules and powders
- Liquid dosage forms, syrups, solutions, suspensions
- Medicated confectionery, hard boiled candies gums, chewing gum
- Clinical nutrition, baby food

## Polyoles

Product	Description	Grade
<b>Merisorb Pharma</b>	Crystallized sorbitol powder (min. 97 % D-sorbit) Range of specific particle sizes	Sorbitol EP, USP/NF
<b>Merisorb SD Pharma</b>	Spray-dried sorbitol powder (min. 97 % D-sorbit) Range of specific particle sizes	Sorbitol EP, USP/NF
<b>Merisorb BEC</b>	Spray-dried sorbitol powder (min. 97 % D-sorbit) Bacterial endotoxin controlled	Sorbitol EP, USP/NF
<b>Meritol Pharma</b>	Crystallising sorbitol syrup Non-crystallising sorbitol syrup	Sorbitol Liquid (crystallising) EP Sorbitol Liquid (non-crystallising) EP
<b>Maltilite Pharma</b>	D-Maltitol from maltitol syrup Range of specific maltitol contents and dry substances	Maltitol Liquid EP
<b>Maltilite P 200 Pharma</b>	D-Maltitol powder	Maltitol EP

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Solid dosage forms, direct compression, wet and dry granulation, capsules and powders
- Liquid dosage forms, syrups, solutions, suspensions
- Medicated confectionery, hard boiled candies gums, chewing gum

## Tereos Sugar France

### Sucrose

Product	Description	Grade
<b>Sucrose solution</b>	Perfectly clear solution, very low color level	Made from USP/NF Sucrose
<b>Compressuc® MS</b>	Spray-dried sucrose Anhydrous, easily soluble in water	USP/NF Compressible Sugar
<b>Compressuc® PS</b>	Spray-dried sucrose Anhydrous, easily soluble in water	USP/NF Sucrose EP Sucrose
<b>Alveosucré Fine Grains</b>	Agglomerated sucrose	EP Sucrose
<b>Pearl sugar 30</b>	Agglomerated sucrose	EP Sucrose
<b>Pure icing sugar</b>	Milled sucrose	EP Sucrose
<b>Granulated sugars</b>	Screened sucrose Particle size 600-2000 µm	EP Sucrose
<b>Caster sugars</b>	Screened sucrose Particle size 250/400 µm	EP Sucrose
<b>HPLE sucrose</b>	Spray-dried sucrose	USP/NF, EP, JP Sucrose

## Sucrose with functional additives

Product	Description	Grade
<b>Alveosucres Fine Grains with dextrin</b>	Agglomerated sucrose + dextrin	USP/NF Compressible Sugar
<b>Icing sugar with starch</b>	Milled sucrose + starch	USP/NF Confectioner's Sugar
<b>Icing sugar with silica</b>	Milled sucrose + silica	Components according to EP monographs

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Solid dosage forms, direct compression, wet and dry granulation, capsules, powders and sugar spheres
- Liquid dosage forms, syrups, solutions, suspensions, dry syrups

## Lubricants

### Stearates

Product	Description	Grade
<b>Magnesium Stearate</b>	Vegetable grade FCC	Magnesium Stearate EP/NF
<b>Calcium Stearate</b>	Vegetable grade FCC	Calcium Stearate NF
<b>Sodium Stearate</b>	Vegetable grade	Sodium Stearate EP/NF
<b>Zinc Stearate</b>	Vegetable grade	Zinc Stearate EP/NF
<b>Aluminium Stearate</b>	Vegetable grade	
<b>Potassium Stearate</b>	Vegetable grade	
<b>Stearic Acid 50%/ 70%</b>	Vegetable grade FCC	Stearic Acid EP, USP/NF, JP, BP

- Tableting agent
- Lubricant
- Flowability agent
- Separating agent
- Water repellent

## CPKelco - Cellulose Derivative

### Carmellose Sodium

Product	Description	Grade
<b>Cekol</b>	Carmellose sodium, CMC Available in a wide range of viscosity grades	Carmellose Sodium EP Carboxymethylcellulose NF

- Tablet coating
- Thickener and rheology modifier
- Stabilisation of emulsions and suspensions



## **CPKelco - Biogums**

### **Xanthan gum**

<b>Product</b>	<b>Description</b>	<b>Grade</b>
<b>Xantural® 11K</b>	Xanthan gum 14 mesh/1,18 mm particle size	Xanthan Gum EP/NF
<b>Xantural® 180</b>	Xanthan gum 80 mesh/180 µm particle size	Xanthan Gum EP/NF
<b>Xantural® 75</b>	Xanthan gum 200 mesh/75 µm particle size	Xanthan Gum EP/NF

- Quality system based on IPEC-PQG GMP for pharmaceutical excipients
- Thickener, rheology modifier or gel forming agent
- Stabilisation of emulsions and suspensions
- Controlled drug release formulations

### **Pectine**

<b>Product</b>	<b>Description</b>	<b>Grade</b>
<b>Genu® Pectin</b>	Pectin from citrus peel High ester pectin (DE >50%) Range of specific particle sizes Available in different viscosity grades	Pectin USP

- Gel forming agent
- Textures from gels to structured fluids
- Used as water-binding and film-forming agents
- Emulsion/suspension stabilization
- Buffer effect to pH 3-5
- Ability to absorb and bind water

### **Carrageenan**

<b>Product</b>	<b>Description</b>	<b>Grade</b>
<b>Genugel® CG-130</b>	Kappa-carrageenan Firm and brittle gels	Carrageenan NF
<b>Genuvisco® CG-131</b>	Iota-carrageenan Elastic and cohesive gels	Carrageenan NF
<b>Genuvisco® CG-129</b>	Lambda-carrageenan Viscous non-gelling solutions	Carrageenan NF

- Gel forming agent
- Thickener and rheology modifier
- Stabilisation of emulsions, suspensions and foams

## Gellan Gum

Product	Description	Grade
<b>Kelcogel® CG-LA</b>	Gellan gum (low acyl) Firm, non-elastic, brittle gels	Gellan Gum NF
<b>Kelcogel® CG-HA</b>	Gellan gum (high acyl) Soft, very elastic, non-brittle gels	Gellan Gum NF

- Gel forming agent
- Thickener and rheology modifier
- Fluid-gel forming agent
- Controlled drug release formulations

## Yung Zip

### Sodium Starch Glycolate

Product	Description	Grade
<b>Sodium Starch Glycolate (DST) Type A</b>	Sodium carboxymethyl starch type A	Sodium Starch Glycolate NF/EP/BP

- Superdisintegrant

## Dow Corning® - Silicones

### Fluids

Product	Description	Grade
<b>Q7-9120 Silicone Fluid</b> 20 cSt 100 cSt 350 cSt 1000 cSt 12500 cSt	Dimeticone, polymethylsiloxane (PDMS)	Dimethicone NF; US-DMF Dimeticone/Silicone Oil EP Certificate of Suitability (CEP)
<b>ST-Dimethiconol 40</b>	Short, hydroxy-terminated dimeticone	US-DMF

- Skin protectant
- Solubilizer for hydrophilic actives

## Volatiles and Cyclics

Product	Description	Grade	
<b>Q7-9180 Silicone Fluid</b>	0,65 cSt 1 cSt	Hexamethyldisiloxane (0,65 cSt) Octamethyltrisiloxane (1 cSt)	US-DMF; TF
<b>ST-Cyclomethicone 5-NF</b> <b>ST-Cyclomethicone 56-NF</b>	Cyclopentasiloxan (D5) Cyclopenta-/Cyclohexasiloxan (D5/D6)	Cyclomethicone NF US-DMF; TF	

- Volatile carrier for sprays or semi-solid formulations
- No cooling effect, non-stinging
- Spreading agent

## Waxes

Product	Description	Grade
<b>Silky Wax 10</b>	Stearyl alcohol and stearoxy trimethylsilane Melting point 53 °C	

- Semi-occlusive wax
- Thickener for silicone-containing formulations
- Water repellent

## Blends

Product	Description	Grade
<b>Dimethiconol Blend 20</b>	Ultra-high viscosity silicone gum (6 %) in non-volatile dimeticone Non occlusive film former	US-DMF; TF
<b>Silmogen Carrier</b>	Ultra-high viscosity silicone gum (1 %) in hexamethyldisiloxane Carrier for sprays	US-DMF
<b>ST-Elastomer 10</b>	Dimeticone crosspolymer (12 %) in cyclomethicone (D5) Thickener for silicone containing formulations	US-DMF; TF

## Emulsifiers

Product	Description	Grade
<b>Emulsifier 10</b>	Lauryl meticone copolyol	US-DMF; TF

- Emulsifier for W/O and W/Si emulsion (up to 80 % water content)
- Room temperature emulsification

## Petroleum Jellies

Product	Description	Grade
<b>Codex Vaseline</b>	Petroleum Jelly	EP, French Codex Monograph
<b>White Oils</b>	Paraffinum liquidum	EP, USP/NF, BP, French Codex Monograph

- Petroleum Jelly can be used as excipient or as API
- Produced under GMP conditions
- Protective, healing, moisturising and soothing properties

## Dow Corning® - Topical Ingredients

### Low volatile fluids

Product	Description	Grade
<b>TI-1010 Fluids</b>	0,65 cSt 1 cSt Volatile dimeticone Linear polydimethylsiloxane	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities

- Solubilizer,
- Carrier
- Spreading agent

### Fluids

Product	Description	Grade
<b>TI-1050 Fluids</b>	1.5 cSt Volatile dimeticone Linear polydimethylsiloxane	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities
<b>TI-1050 Fluids</b>	5 cSt 10 cSt Low molecular weight dimeticone Linear polydimethylsiloxane Non-volatile	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities
<b>TI-1050 Fluids</b>	50 cSt 100 cSt 200 cSt 350 cSt 1,000 cSt Intermediate molecular weight dimeticone Linear polydimethylsiloxane Non-volatile	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities
<b>TI-1050 Fluids</b>	12,500 cSt 30,000 cSt 100,000 cSt High molecular weight dimeticone Linear polydimethylsiloxane Non-volatile	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities

- Non occlusive
- Lubricant
- Spreading agent

## Speciality Fluids

Product	Description	Grade
<b>TI-2011 SPE Specialty Fluid</b>	Water dispersible silicone polyether Peg-12 dimethicone Calculated HLB 12	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities
<b>TI-2021 AMS Specialty Fluid</b>	Caprylyl-modified trisiloxane Moderate volatility	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities

- solubilizer and compatibilizer
- spreading agent
- Non-occlusive

## Blends

Product	Description	Grade
<b>TI-3011 Gum Blend</b>	Dimeticone and dimeticanol High molecular weight dimeticanol dispersed in a non-volatile carrier film forming agent	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities
<b>TI-3021 Silicone Elastomer Blend</b>	Dimeticone and dimeticone crosspolymer Mixture of high molecular weight Cross linked silicone (14 %) in dimeticone 5 cSt rheology modifier	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities

- Emollient
- Non-occlusive
- Improves substantivity

## Waxes

Product	Description	Grade
<b>TI-4021 Semi-Occlusive Wax</b>	C30-45 Alkyldimethylsilyl polypropylsil-sesquioxane Silicone wax with added resin character High melting point +/- 66 °C	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities

- Structuring agent, semi-occlusive
- helps rheology and texture modification
- broad compatibility with organic and silicone material

## Emulsifier

Product	Description	Grade
<b>TI-6021 W/O Formulation Aid</b>	PEG-10 dimethicone Silicone polyether copolymer Calculated HLB 4	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities

- emulsifier for W/O and W/Si emulsion
- produces low viscosity emulsion
- cold or hot processing

## Resins

Product	Description	Grade
<b>TI-7012 Solid Resin</b>	MQ resin polymer Trimethylsiloxysilicate Solventless	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities
<b>TI-7021 Silicone Resin Blend</b>	MQ siloxane resin diluted in a carrier fluid Dimethicone and trimethylsiloxysilicate	Consumer healthcare: topical medical device and OTC - Ingredient Regulatory Information (IRI) - Elemental Impurities

- Film former
- permeable barrier film
- long lasting film
- excellent wash-off resistance
- non-occlusive

## WNC – Ingredients

(Organic-sourced possible)

## Topical Ingredients

Product	Description	Grade
<b>Vasegreen V, L, B</b>	Vegetable-sourced ingredient	COSMOS certified Organic Certificated Cultivation

- Suitable for topical medical devices
- Alternative to Petrolatum, Paraffin and Lanolin
- Customisation possible

## Functional Ingredient Blends

- Optimized functional ingredient systems based on the topical ingredients and specific plant actives
- Vegetable-sourced functional ingredients
- Customisation possible





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