

Active Pharmaceutical  
Ingredients  
Pharmaceutical Excipients  
Tubing

**Pharma Portfolio**

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# Our Partners



# Active Pharmaceutical Ingredients

## Strategic APIs



Zhejiang Haizhou Pharmaceutical Co., Ltd.

Product Name	Documentation	Use
Guaifenesine	CEP	Expectorant
Potassium Guaiacolsulfonate	ASMF	Expectorant

## Kingchem Laboratories

Product Name	Documentation	Use
Tripelennamine HCL	ASMF	Antihistamine

## Medilux Laboratories

Product Name	Documentation	Use
Metacresol	ASMF	Antidiabetes
Inosine pranobex	ASMF	Antiviral
Bromfenac sodium	ASMF	Ophthalmic
Bumetanide	ASMF	Diuretic

## Amoli

Product Name	Documentation	Use
Diclofenac Diethylammonium	ASMF, USDMF	Anti-inflammatory
Diclofenac free acid	ASMF, USDMF	Anti-inflammatory
Diclofenac potassium	CEP, ASMF, USDMF	Anti-inflammatory
Diclofenac sodium	CEP, ASMF, USDMF	Anti-inflammatory
Clotrimazole	CEP, USDMF	Antifungal
Chlorthalidone	ASMF, USDMF	Diuretic
Levetiracetam	CEP, USDMF	Anti-epileptic

## N.R Oils

Product Name	Documentation	Use
Zinc undecylenate	ASMF	Antifungal
Undecylenic acid	ASMF	Antifungal

## Shandong Xinhua Pharmaceutical Co.

Product Name	Documentation	Use
Caffeine anhydrous	CEP	CNS

## D.K Pharmachem

Product Name	Documentation	Use
Probenesid	ASMF	Uricosuric
Itopride HCL	ASMF	Prokinetic agent

## Veer Chemie

Product Name	Documentation	Use
Benzyl nicotinate	ASMF	Rubefacient
Ethyl nicotinate	ASMF	Rubefacient
Methyl nicotinate	ASMF	Rubefacient

## Other APIs

Product Name	Documentation	Use
Apixaban	ASMF	Anticoagulant
Bromhexine HCl	CEP	Expectorant
Cetrimide	ASMF	Antiseptic
Cetypyridinium chloride	ASMF	Antiseptic
Chlorhexidin diacetate	ASMF	Antiseptic
Chlorhexidin dihydrochloride	ASMF	Antiseptic
Chlorhexidin digluconate	CEP	Antiseptic
Clotiazepam	ASMF	Anxiolytikum
Gentamicin sulfate	CEP	Antibiotics
Griseofulvin	CEP	Antimykotikum
Ketamine HCl	CEP	Antibiotics
Lidocain base	ASMF	Anasthetic
Lidocain HCl	ASMF	Anasthetic
Lincomycin	CEP	Antibiotics
Methylphenobarbital	CEP	Anasthetic
Metronidazole	CEP	Antiprotozoal

Product Name	Documentation	Use
Oxytocin	ASMF	Hormons
Perazine dimaloate	ASMF	Antipsychotic
Prednisolone	CEP	Antiinflammatory
Promethazine HCL	ASMF	Sedative
Riboflavin sodium phosphate	CEP	Vitamin
Risperidon	CEP/USDMF	Antipsychotic
Rivaroxaban	ASMF	Anticoagulant
Rosuvastatin Calcium	CEP/USDMF	Statin
Solifenacin succinate	ASMF	Antimuscarinic
Sugammadex sodium	ASMF	Revelsal Anesthesia
Sucralfate	CEP	Gastrointestinal
Valproic acid	CEP	Anticonvulsant
Vildagliptin	ASMF	Antidiabetic
Xipamide	ASMF	Diuretic

No commercial sales will be made to countries with existing patents that infringe patent rights.

## Avesta Pharma

### Macrogol



Product	Description	Grade
Macrogol 3350	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)
Macrogol 4000	Polyethylene glycol, PEG	BP/EP/NF Certificate of suitability (CEP)

- Active for laxatives
- ICH Q7 GMP
- EDMF Macrogol 3350/4000 available

## DuPont™ Liveo™

### Simethicones



Product	Description	Grade
<b>Liveo™ Q7-2243 LVA, Simethicone USP</b>	Mixture of low-volatile PDMS Fluid and silicon dioxide	USP/ PhEUR Certificate of Suitability (CEP)
<b>Liveo™ Antifoam M Compound</b>	Mixture of PDMS and silicon dioxide	PhEUR Certificate of Suitability (CEP)

- Active for prescription/ OTC/ medical device antifoam agents
- Foam control in medical and pharmaceutical applications
- ICH Q7 GMP
- FDA registered production site

## Grillo Zinc Powder GmbH

### Zinc Oxide Pharma



Product	Description	Grade
<b>Zinc Oxide Pharma 4 API</b>	High purity pharmaceutical zinc oxide 99.995 % ZnO	EP/USP/BP CEP, ASMF
<b>Zinc Oxide Pharma 6 API</b>	High purity pharmaceutical zinc oxide 99.995 % ZnO	EP/USP/BP CEP, ASMF
<b>Zinc Oxide Pharma 8 API</b>	High purity pharmaceutical zinc oxide 99.995 % ZnO	EP/USP/BP CEP, ASMF

- Pharmaceutical API
- Wound healing, antiseptic effect, antimicrobial effect
- GMP certification available
- CEP request submitted, expected within 2019
- EU-ASMF available

## Tereos

### Glucose Monohydrate Injectable Grade



Product	Description	Grade
<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

## Adeka

### Defoaming Surfactants



Product	Description	Grade
<b>ADEKA NOL LG-109</b>	EO/PO based defoamer	For use in pharmaceutical processing
<b>ADEKA NOL LG-126</b>	EO/PO based defoamer	For use in pharmaceutical processing

- Bio-based polyether type antifoaming agent
- Processing aid in the production of pharmaceuticals and cosmetics
- Fermentation processes (e.g. of astaxanthin, EPA/DHA, amino acids and yeast)

## Avesta Pharma

### Macrogol



Product	Description	Grade
<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)
<b>Macrogol 6000</b>	Polyethylene glycol, PEG	BP/EP/NF

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

## CP Kelco

### Xanthan Gum



Product	Description	Grade
<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

- Manufactured under cGMP guidelines for bulk pharmaceutical excipients
- Thickener, rheology modifier or gel forming agent
- Stabilisation of emulsions and suspensions
- Controlled drug release formulations

## Pectin



Product	Description	Grade
<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 stabilisation
- Buffer effect to pH 3-5
- Ability to absorb and bind water

## Carrageenan



Product	Description	Grade
<b>Genuvisco® CG-129</b>	Lambda-carrageenan Viscous non-gelling solutions	Carrageenan NF
<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

- 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

## Covation Biomaterials

## Propanediol



Product	Description	Grade
<b>Zemea® USP-NF Propanediol</b>	1,3-Propanediol	USP/NF Naturally derived

- Alternative to petroleum-based glycols and glycerin – naturally derived
- Preservative-booster and moisturiser

## DuPont™ Liveo™

### Simethicone and Emulsion



Product	Description	Grade
<b>Liveo™ Q7-2243 LVA, Simethicone USP</b>	Mixture of low-volatile PDMS Fluid and silicon dioxide	USP/ PhEUR Certificate of Suitability (CEP)
<b>Liveo™ Antifoam M Compound</b>	Mixture of PDMS and silicon dioxide	PhEUR Certificate of Suitability (CEP)
<b>Liveo™ Medical Antifoam A Compound</b>	Mixture of PDMS and silicon dioxide	USP
<b>Liveo™ Q7-2587 30% Simethicone Emulsion USP</b>	Emulsion containing 30% Simethicone	USP
<b>Liveo™ Medical Antifoam C Emulsion</b>	Emulsion containing 30% Simethicone	USP

- ICH Q7 GMP
- Foam control for pharmaceutical application and formulation

### Fluids



Product	Description	Grade
<b>Q7-9120 Silicone Fluid</b> 20 cSt 100 cSt 350 cSt 500 cSt 1.000 cSt 12.500 cSt	Dimethicone, Polydimethylsiloxane (PDMS)	USP/EP

- Skin protectant, smooth feel, long lasting lubrication
- Creams, gels and sticks
- Excipient for topical skin care formulations & topical as well as oral pharmaceutical applications

### Volatiles and Cyclics



Product	Description	Grade
<b>Q7-9180 Silicone Fluid</b> 0,65 cSt 1 cSt	Hexamethyldisiloxane (0,65 cSt) Octamethyltrisiloxane (1 cSt)	For use in topical applications
<b>ST-Cyclomethicone 5-NF</b> <b>ST-Cyclomethicone 56-NF</b>	Cyclopentasiloxan (D5) Cyclopenta-/Cyclohexasiloxan (D5/D6)	Cyclomethicone NF For use in topical applications

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

## Specialty Fluid



Product	Description	Grade
<b>ST-Dimethiconol 40</b>	Short, hydroxy-terminated dimethicone	For use in topical pharmaceutical applications

- smooth feel, long lasting lubrication
- Excipient for topical skin care formulations & topical pharmaceutical applications
- Creams, gels and sticks

## Blends



Product	Description	Grade
<b>Dimethiconol Blend 20</b>	Ultra-high viscosity silicone gum (6%) in non-volatile dimethicone Non occlusive film former	For use in topical pharmaceutical applications
<b>Silmogen Carrier</b>	Ultra-high viscosity silicone gum (1%) in hexamethyldisiloxane Carrier for sprays	For use in topical pharmaceutical applications

- Non occlusive film former
- Flexible and substantive films
- Long lasting

Product	Description	Grade
<b>TE-9320 Silicone Elastomer Blend</b>	Dimethicone Crosspolymer (12%) in a linear volatile silicone fluid (2cSt)	For use in topical applications
<b>TE-9330 Silicone Elastomer Blend</b>	Dimethicone Crosspolymer (12%) in a linear non-volatile silicone fluid (5cSt)	For use in topical applications

- Provides unique smooth feel
- Thickener for anhydrous phases such as silicones

Product	Description	Grade
<b>TE-9720 Silicone Resin Blend</b>	Dimethicone (100cSt) and Trimethylsiloxisilicate (30%)	For use in topical applications
<b>TE-9721 Silicone Resin Blend</b>	Caprylyl Methicone and Trimethylsiloxisilicate	For use in topical applications

- Film former
- Permeable barrier film
- Long lasting film
- Excellent wash-off resistance
- Non occlusive

Product	Description	Grade
<b>MG-2001</b>	Hexamethyldisiloxane 94% W/W Octamethyltrisiloxane 5% W/W Dimethicone 20cSt 1% W/W	For use in topical medical device applications

- Silicone Blend for adhesive removal products (excellent cleaning ability)
- Quick drying time
- Skin protectant

## Customized Blends



Other customized Silicone Blends are available upon request.

Product	Description	Grade
<b>Customized Blends</b>	Pure Silicone and Silicone + organic blends	For use in topical medical device & topical pharmaceutical applications

- Bulk production of gels, ointments, emulsions and spray formulations according to customer specification

## Grillo Zinc Powder GmbH

### Zinc Oxide Pharma



Product	Description	Grade
<b>Zinc Oxide Pharma 4 Excipient</b>	High purity pharmaceutical zinc oxide 99.995% ZnO	EP/USP/BP
<b>Zinc Oxide Pharma 6 Excipient</b>	High purity pharmaceutical zinc oxide 99.995% ZnO	EP/USP/BP
<b>Zinc Oxide Pharma 8 Excipient</b>	High purity pharmaceutical zinc oxide 99.995% ZnO	EP/USP/BP

- Pharmaceutical excipient
- Wound healing, antiseptic effect, antimicrobial effect
- Complies with EU GMP guidelines

## KLK OLEO

### Glycerin / Fatty Acid Ester



Product	Description	Grade
<b>Edenor® G 86 PH</b>	Glycerol, 1.2.3-Propantriol, Glycerin min. 85 % CAS: 56-81-5	EP/USP
<b>Edenor® G 99.8 PH</b>	Glycerol, 1.2.3-Propantriol, Glycerin min. 99 % CAS: 56-81-5	EP/USP
<b>ENHEX MCT 64</b>	Caprylic/Capric Triglyceride CAS: 65381-09-1 / 73398-61-5	EP

- Pharmaceutical excipient
- In cremes, ointments or liquids

## MEGGLE Lactose

### Pharmaceutical Lactose and Co-processed Excipients

Product	Description	Grade
<b>GranuLac®</b>	Milled Lactose Monohydrate Range of specific particle sizes	Lactose Monohydrate (Ph. Eur. / USP-NF / JP <sup>1</sup> )
<b>SorboLac® 400</b>	Milled Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
<b>PrismaLac® 40</b>	Sieved Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
<b>CapsuLac® 60</b>	Sieved Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
<b>SacheLac® 80</b>	Sieved Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
<b>SpheroLac® 100</b>	Sieved Lactose Monohydrate	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
<b>Tablettose®</b>	Agglomerated Lactose Monohydrate Range of specific particle sizes	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
<b>FlowLac®</b>	Spray-dried Lactose Monohydrate Range of specific particle sizes	Lactose Monohydrate (Ph. Eur. / USP-NF / JP)
<b>DuraLac® H</b>	Anhydrous Lactose	Anhydrous Lactose (USP-NF / Ph. Eur. / JP)
<b>Cellactose 80®</b>	Co-processed, directly compressible spray agglomerate	75 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 25 % Powdered Cellulose (Ph. Eur., USP-NF, JP)
<b>MicroceLac®100</b>	Co-processed, directly compressible spray agglomerate	75 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 25 % Microcrystalline Cellulose (Ph. Eur., USP-NF, JP)
<b>StarLac®</b>	Co-processed, directly compressible spray agglomerate	85 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 15 % Maize Starch (Ph. Eur., USP-NF, JP)
<b>CombiLac®</b>	Co-processed, directly compressible spray agglomerate	70 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 20 % Microcrystalline Cellulose (Ph. Eur., USP-NF, JP) 10 % Maize Starch (Ph. Eur., USP-NF, JP)
<b>RetaLac®</b>	Co-processed, directly compressible spray agglomerate	50 % Lactose Monohydrate (Ph. Eur., USP-NF, JP) 50 % Hypromellose (Ph. Eur., USP-NF, JP)
<b>Reta M®</b>	Co-processed, directly compressible spray agglomerate	50 % Mannitol (Ph. Eur., USP-NF, JP) 50 % Hypromellose (Ph. Eur., USP-NF, JP)
<b>InhaLac®</b>	Sieved, milled and micronized Lactose Monohydrate for DPI Range of specific particle sizes	Inhaler Grade Lactose Monohydrate (USP-NF / Ph. Eur. / JP)

## Nouryon

### 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

## Tereos

### 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

## Polyols



Product	Description	Grade
<b>Merisorb Pharma</b>	Crystallised Sorbitol powder (min. 97 % D-Sorbit) Range of specific particle sizes	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

## Sucrose



Product	Description	Grade
<b>Sucrose solution</b>	Perfectly clear solution, very low colour level	Made from USP/NF Sucrose
<b>Compressuc® MS</b>	Spray-dried Sucrose direct compressible Anhydrous, easily soluble in water	USP/NF Compressible Sugar
<b>Compressuc® PS</b>	Spray-dried Sucrose direct compressible 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

## Sucrose With Functional Additives



Product	Description	Grade
<b>Icing sugar with starch</b>	Milled Sucrose + Starch	USP/NF Confectioner's Sugar

- 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



## Various Excipients

### 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

## Ueno Fine Chemicals Industry

### Parabens



Product	Description	Grade
<b>Methylparaben</b>	Mehtylparaben for preservation	Ph.Eur., USP, BP, NF REACH
<b>Ethylparaben</b>	Ethylparaben for preservation	Ph.Eur., USP, BP, NF REACH
<b>Propylparaben</b>	Propylparaben for preservation	Ph.Eur., USP, BP, NF REACH

## Rasula Pharmaceuticals and Fine Chemicals

### Paraben Salts



Product	Description	Grade
<b>Sodium Methylparaben</b>	Sodium Methylparaben for preservation	Ph. Eur. REACH
<b>Sodium Ethylparaben</b>	Sodium Ethylparaben for preservation	Ph.Eur.
<b>Sodium Propylparaben</b>	Sodium Propylparaben for preservation	Ph. Eur. REACH

## DuPont Liveo™ Tubing

### Silicone Tubing



Product	Description	Grade
<b>Pharma Tubing</b> 50 Shore A 65 Shore A 80 Shore A	Platinum-cured silicone tubing For high purity pharmaceutical fluid transfer and filling applications	EP 3.1.9. "Silicone elastomer for closures and tubing" USP Class VI, FDA and ISO criteria cGMP
<b>Pharma Reinforced Tubing</b> 65 Shore A	Platinum-cured silicone tubing Fiber-reinforced tubing for high-pressure and vacuum applications	EP 3.1.9. "Silicone elastomer for closures and tubing" USP Class VI, FDA and ISO criteria
<b>Pharma Advanced Pump Tubing</b>	Specifically formulated platinum-cured silicone tubing for peristaltic pump applications Providing up to six times the pump life of standard platinum-cured silicone tubing	EP 3.1.9. "Silicone elastomer for closures and tubing" USP Class VI, FDA and ISO criteria cGMP

- Pharmaceutical grade silicone tubing
- For high purity pharmaceutical & biotechnological fluid transfer and filling application
- Increased kink and pressure resistance with higher durometers
- Extruded from Liveo™ brand BioMedical Grade Elastomer

### TPE Tubing



Product	Description	Grade
<b>Pharma TPE Tubing</b> 65 Shore A	Sterilizable, weldable TPE tubing for Single-use assemblies and Peristaltic pump applications Contains no peroxide by products, Chlorophenyls or PCBs	USP Class VI Plastics Test FDA and ISO criteria cGMP Class 7 clean room

- Pharmaceutical grade TPE tubing
- For transferring of ultra-pure liquids, air or steam in pharmaceutical an biotechnological manufacturing process
- High tensile strength and Burst resistance pre and post welding
- Made from Medical Grade elastomer that complies to USP Class VI Plastics Tests Requirements



### Lab & Innovation Centre

At our Lab and Innovation Centre in Hamburg we work with our customers to develop tailored solutions. We can provide a selection of sample formulations to serve as a good starting point for your project. By including additives from our wide-ranging portfolio, we can also enhance existing formulations.

If you have an idea for a project get in touch:

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# Contact

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