



Electrochem[®]
Ultra Performance Silicones & TPE
ELECTROCHEM SILICONES LTD

Tubing for
Food & Beverage





Welcome to our Company!

ELECTROCHEM SILICONES Ltd® designs, produces and distributes Ultra Performance Silicone and Plastic tubing, special parts and extruded profiles for **medical applications, industrial applications for food & beverage** a.o. using over 45 years of scientific experience.

Our Company uses highest quality Silicone Elastomers, Latex free, Thermoplastic & Specialty Polymers with long term tested chemical formulas, and offers in the world market products in conformity to International Standards i.e. **ISO 9001:2008, ISO 13485:2012, Directives 93/42/EEC & 10/2011/EU, European Pharmacopoeia, United States Pharmacopoeia, FDA, USP** a.o.

Products Portfolio engineered and developed for you

Our product portfolio is mainly addressed to markets with strict specifications and includes:

- Extruded Silicone Elastomer Profiles for all kind of applications
- Silicone Compounds for many different applications

Silicone & Flexible Tubing for Food & Beverage related industry

Our Tubing Portfolio for Food & Beverage is based on our:

- Elsil-FGi® and Elsil-FMi® Platinum Cured Silicone Elastomers
- Elsil-FG® and Elsil-FM® Peroxide Cured Silicone Elastomers
- Devia 6F & 7F® (DEHP free) flexible Plastics
- Elte® YY Thermoplastic Elastomers

Silicone Compounds for Food & Beverage related industry a.o.

Our Silicone Profiles & Silicone Compounds Portfolio is based on over 1500 chemical formulations and features:

- Excellent media resistance, i.e. milk, fats, alcohol, acids, a.o.
- Extraordinary biological inertness
- Oil resistance, i.e. paraffinic a.o.
- Perfect sealing; easy maintenance
- Glossy inner surface, prevents bacteria growth
- Non outer surface tackiness
- Practically zero water absorption; water repellent
- Ultimate UV, ageing & weathering resistance
- Colors acc. to RAL
- Low temperature flexibility up to -50°C
- C.I.P. (Clean-In-Place)

ELECTROCHEM SILICONES Ltd® is certified to EN ISO 9001:2008, EN ISO 13485:2012 & DY8d/1348 MoH (93/42/EEC) and is registered in Hellenic Drugs Organization (E.O.F.).

FOOD GRADE SILICONE TUBING - GENERAL PURPOSE FT TYPE - PLATINUM CURED FORMULA



FT TYPE - PLATINUM CURED FORMULA

Material	<i>Elsil-FGi®</i> (Platinum Cured) Silicone (VMQ Quality – Food Grade, Non-Recycled)	Available Diameters Inner Ø × Outer Ø in mm	
Appearance	Transparent	2×4	8×11
Colour	None	3×5	8×12
Shape	Circular	3×6	8×13
Temperature Range	-45°C to +180°C	4×7	8×14
Properties	Biologically inert, substrate repels & prevents microbia, bacteria & fungus growth, excellent heat stability, transparent, odourless, tasteless, non-toxic, unmeltable, highly elastic, non deformable, top mechanical properties	4×8	9×12
Dimensions	From I.D. × O.D = 2,0 × 4,0 mm up to I.D. × O.D = 15,0 × 25,0 mm (over 150 combinations). Other dimensions upon request	5×8	9×13
Uses	Liquid transportation. Connection of all types food equipment & devices	5×9	10×14
Length/ Package	25 m rolls (or other length on request) in PE transparent bags firmly sealed	6×9	10×15
Standards	EN ISO 9001:2008, EN ISO 13485:2012, 10/2011/EU Directive, FDA	6×10	10×18
Certificates	EN ISO 9001: 2008, EN ISO 13485:2012	6×12	11×16
Important note	Clean-In-Place (CIP) suitable	7×10	12,5×19
		7×11	and over 150 combi- nations
		7×12	
		7×13	

FOOD GRADE SILICONE TUBING - SPECIAL FORMULA FOR MILK INDUSTRY FM TYPE - PLATINUM & PEROXIDE CURED FORMULAS



Material	<i>Elsil-FM[®]</i> (Platinum Cured) & <i>Elsil-FM[®]</i> (Peroxide Cured) Silicone (VMQ Quality- Food Grade, Non- Recycled)	Available Diameters Inner Ø × Outer Ø in mm 10×14 10×15 10×18 11×16 12,5×19 and over 150 combinations
Appearance	Transparent	
Colour	None	
Shape	Circular	
Temperature Range	-45°C to +180°C	
Properties	Specially designed for milk (i.e. lactic acid and milk's fatty acids). No extractables, Biologically inert, substrate repels & prevents microbia, bacteria & fungus growth, excellent heat stability, transparent, odorless, tasteless, non-toxic, unmeltable, highly elastic, non deformable, top mechanical properties. Can be washed up & used immediately for many times without loss of it's properties	
Dimensions	From I.D. × O.D = 10,0 × 14,0 mm up to I.D. × O.D = 13,0 × 23,0 mm (over 150 combinations). Other dimensions upon request	
Uses	Liquid transportation. Connection of all types food equipment & devices	
Length/ Package	25 m rolls (or other length on request) in PE transparent bags firmly sealed	
Standards	EN ISO 9001:2008, EN ISO 13485:2012, 10/2011/EU Directive, FDA	
Certificates	EN ISO 9001:2008, EN ISO 13485:2012	
Important note	Clean-In-Place (CIP) suitable	

FLEXIBLE SINGLE or DOUBLE LUMEN PLASTIC TUBING - SPECIAL FORMULA FOR MILK INDUSTRY | VM TYPE – PVC BASED - FOOD GRADE | DEHP FREE



Material	100% Food Grade <i>Devia-7F®</i> (DEHP Free) Thermoplastic Homo polymer (Non-Recycled)
Appearance	Transparent
Colour	None
Shape	Circular
Temperature Range	Constant properties from -20°C to +90°C (126°C for short time periods)
Properties	Specially designed for milk (i.e. lactic acid and milk's fatty acids). Non-yellowing. Excellent stability to light & ozone. Glossy surface prevents microbia, bacteria & fungus growth. Transparent, odourless, tasteless, non-toxic, high elasticity, hardly meltable, high modulus, non deformable, top mechanical properties
Dimensions	From I.D. × O.D = 5,0 × 8,0 mm up to I.D. × O.D = 16,0 × 24,0 mm (over 100 combinations). Other dimensions upon request
Uses	Ideal for liquid transportation .
Length/ Package	25 m rolls (or other length on request) in PE transparent bags firmly sealed
Standards	EN ISO 9001: 2008, EN ISO 13485:2012, 10/2011/EU Directive, FDA
Certificates	EN ISO 9001: 2008, EN ISO 13485:2012
Important note	Clean-In-Place (CIP) suitable

Available Diameters Inner Ø × Outer Ø in mm	
5×8	8×11
5×9	8×12
6×9	8×13
6×10	8×14
6×12	9×12
7×10	9×13
7×11	10×14
7×12	10×15
7×13	10×18
	11×16
and over 150 combinations	

FOOD GRADE ELASTIC TUBING AS TYPE (STANDARD GRADE) & AF TYPE (SOFT GRADE) - SILICONE REPLACEMENT



Material	Standard: 100% Food Grade <i>Elte 70®</i> (DEHP Free) Thermoplastic Elastomer (Non-Recycled) Soft: 100% Food Grade <i>Elte 60®</i> (DEHP Free) Thermoplastic Elastomer (Non-Recycled)	Available Diameters Inner Ø × Outer Ø in mm	
Appearance	Transparent	3×5	7×13
Colour	None	3×6	8×11
Shape	Circular	4×7	8×12
Temperature Range	Constant properties from -20°C to +90°C (126°C for short time periods)	4×8	8×13
Properties	Non-yellowing. Excellent stability to light & ozone. Glossy surface prevents microbia, bacteria & fungus growth. Transparent, odourless, tasteless, non-toxic, high elasticity, hardly meltable, high modulus, non deformable, top mechanical properties	5×8	8×14
Dimensions	From I.D. × O.D = 3,0 × 5,0 mm up to I.D. × O.D = 16,0 × 20,0 mm (over 100 combinations). Other dimensions upon request	5×9	9×12
Uses	Ideal for liquid transportation .	6×9	9×13
Length/ Package	25 m rolls (or other length on request) in PE transparent bags firmly sealed	6×10	10×14
Standards	EN ISO 9001: 2008, 10/2011/EU Directive, FDA	6×12	10×15
Certificates	EN ISO 9001: 2008, EN ISO 13485:2012	7×10	10×18
Important note	Clean-In-Place (CIP) suitable	7×11	11×16
		7×12	16×20
		and over 150 combinations	



Why ELECTROCHEM SILICONES®

Our Company is well known for designing, producing and supplying ultra performance elastomers.

We focus our research on successful product development that meets individual customer's requirements.

We, founders and owners of **ELECTROCHEM SILICONES**, personally guarantee Top Quality, Reliability, Innovation and Customer Support.

We value what we do and that is why we build strong working relationships with our customers.

Direct service is always present and customer's satisfaction is among our top priorities.

Through vertical and automatic production we achieve cost efficient operational excellence for our customers.

Our vendors and co-workers are carefully selected in order to enhance customer's trust.

ELECTROCHEM SILICONES with full respect to customers' exact needs exports successfully worldwide.

Quality

All our products are specially designed for our customers' needs.

Our company is well known for it's intensive quality control. By providing technical solutions, by manufacturing innovative products and by being efficient and effective, our customers receive high quality products and services. All products are designed and manufactured according to the European and USA standards and recommendations.

ELECTROCHEM SILICONES has been approved by Lloyd's Register Quality Assurance to EN ISO 9001:2008 & EN ISO 13485:2012 Standards for the quality management system in designing, produc-

tion and sales of elastomers and specialty polymers for Medical and Industrial use. Additional approval by Lloyd's Register Quality Assurance exists to DY8d/1348 according to the Domestic Drug Association in compliance to the European Directive 93/42/EEC.

ELECTROCHEM SILICONES is also registered as medical devices manufacturer in Hellenic Research Center for Biomaterials. All our medical products are accompanied with the CE Mark (with Declaration of Conformity) acc.to 93/42/EEC and all our food grade products with the CE Mark (with Declaration of Conformity) acc.to 10/2011/EU.





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SILICONE ELASTOMERS – SPECIALTY POLYMERS
EN ISO 9001:2008 - EN ISO 13485:2012 CERTIFIED

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