



electrochem[®]
delibaltas

Ultra Performance Silicones & Polymers

Tubing for
Food & Beverage



Welcome to our Company!

ELECTROCHEM - Dr DELIBALTAS Ltd[®] (est. 1972, Thessaloniki, Hellas, Production and Global Sales), 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 40 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 13485:2003, Directives 93/42/EEC & 10/2011/EU, European Pharmacopoeia, United States Pharmacopoeia, FDA, USP** a.o.

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

- **Silicone Tubing for Medical use**
Our Medical Silicone Tubing Portfolio is based on our *Elsil-Pt[®]* (Platinum Cured), *Elsil[®]* (Peroxide Cured), *Elhard[®]* (Peroxide Cured, Transparent Hard) & *Elred[®]* (Peroxide Cured, Red Hard) Silicone Elastomers.
- **Flexible Clear Thermoplastic Tubing for Medical use**
Our Medical Thermoplastic Tubing Portfolio is based on our *Devia[®]*, *Devia/G[®]* (DEHP free) & *Devim[®]* (DEHP plasticized) Thermoplastic Polymers.
- **Yellow[®] (No Latex - No PVC) Tubing for Medical use**
Our Medical Yellow[®] Tubing Portfolio is based on our *Elye[®]* Elastomers.
- **Silicone & Flexible Plastic Tubing for Food & Beverage related industry**
Our Tubing Portfolio for Food & Beverage is based on our *Elsil-FGi[®]* and *Elsil-FM[®]* (Platinum Cured) & *Elsil-FG[®]* and *Elsil-FM[®]* (Peroxide Cured) Silicone Elastomers, on our *Devia 6F[®]* & *Devia 7F[®]* (DEHP free) Plastics and on our *Delan-AS[®]* & *Delan-AF* flexible TPV/TPE's.
- **Extruded Silicone Elastomer Profiles for all kind of applications**
Our Silicone Profiles Portfolio is based on over 1500 chemical formulations.

ELECTROCHEM[®] is certified to BS EN ISO 9001:2008, BS EN ISO 13485:2003 & 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



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 repells & 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
		5×8	9×13
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	5×9	10×14
		6×9	10×15
Uses	Liquid transportation. Connection of all types food equipment & devices	6×10	10×18
Length/ Package	25 m rolls (or other length on request) in PE transparent bags firmly sealed	6×12	11×16
Standards	EN ISO 9001:2008, EN ISO 13485:2003, 10/2011/EU Directive, FDA	7×10	12,5×19
Certificates	BS EN ISO 9001: 2008, BS EN ISO 13485:2003	7×11	and over 150 combi- nations
Important note	Clean-In-Place (CIP) suitable	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)
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 repells & 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 13485:2003, 10/2011/EU Directive, FDA
Certificates	BS EN ISO 9001:2008, BS EN ISO 13485:2003
Important note	Clean-In-Place (CIP) suitable

Available Diameters Inner Ø × Outer Ø in mm
10×14
10×15
10×18
11×16
12,5×19
and over 150 combinations

**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 13485:2003, 10/2011/EU Directive, FDA
Certificates	BS EN ISO 9001: 2008, BS EN ISO 13485:2003
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>Delan-AS</i> [®] (DEHP Free) Thermoplastic Vulcanizate Alloy Copolymer (Non-Recycled) Soft: 100% Food Grade <i>Delan-AF</i> [®] (DEHP Free) Thermoplastic Vulcanizate Alloy Copolymer (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	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. x O.D = 3,0 x 5,0 mm up to I.D. x O.D = 16,0 x 20,0 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, 10/2011/EU Directive, FDA
Certificates	BS EN ISO 9001: 2008, BS EN ISO 13485:2003
Important note	Clean-In-Place (CIP) suitable

Available Diameters Inner Ø x Outer Ø in mm	
3x5	7x13
3x6	8x11
4x7	8x12
4x8	8x13
5x8	8x14
5x9	9x12
6x9	9x13
6x10	10x14
6x12	10x15
7x10	10x18
7x11	11x16
7x12	16x20
and over 150 combinations	



Why ELECTROCHEM[®]

Our Company is well known for designing, producing and supplying ultra performance elastomers. We are focusing our research to successful product development that meet individual customer's requirements. Strong commitment to innovation and fast forward-thinking shape the core of our business. We guarantee Top Quality, Reliability, Innovation and Customer Support. We value what we do and that is why we build strong working relationships with our clients.

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[®]** through strategic partnerships and logistic organizations exports technology worldwide.

Quality

All our products are specially designed for our customers' needs. Our company is well known for its 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[®]** has been approved by Lloyd's Register Quality Assurance to BS EN ISO 9001:2008 & BS EN ISO 13485:2003 Standards for the quality management system in designing, production 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[®]** is also registered as medical devices manufacturer in Hellenic Research Center for Biomaterials. All of our medical products are accompanied with the CE Mark (with Declaration of Conformity) acc.to 93/42/EEC and all of our food grade products with the CE Mark (with Declaration of Conformity) acc.to 10/2011/EU.





Dr DELIBALTAS Ltd

SILICONE ELASTOMERS – SPECIALTY POLYMERS
EN ISO 9001:2008 - EN ISO 13485:2003 CERTIFIED

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