

High temp. silicone











THE-MA

offers the optimal solution for industrial applications for thermal and electrical insulation. Specialised in high quality products for protection from fire and high temperatures, semi-finished and finished products obtained from slabs and rods on specific customer design, fabrics, tapes, gaskets, packing, braids of various sizes, flexible hoses made to measure for the passage of aggressive liquids, vapours and hot air.





Our products are used in the Thermoelectric, Electrical Engineering, Glassworks, Iron and Steel, Aluminium, Ceramics, Heat Treatments, Fire Protection, Naval, Aeronautical, Medical, Chemical, Paper, Food, Textile and Automotive industries.





Professionalism, experience and service available for all your needs.





Silicone slabs



Compact Silicone Slabs

SOLID SILICONE SLABS

PRINTED SILICONE SLABS

HIGH TEMPERATURE RESISTANT SILICONE SLABS

FLAME RETARDANT SILICONE SLABS

ELECTRICALLY-CONDUCTIVE-SILICONE-SLABS

REINFORCED SILICONE SLABS

SILICONE MEMBRANE

PLATINIC SILICONE SLABS

ANTIBACTERIAL SILICONE SLABS

SILICONE SLABS FOR METAL DETECTION

FLUOROSILICONE SLABS

TRANSPARENT SILICONE SLABS

PERFORATED SILICONE SLABS

SILICONE STRIPS AND RODS

Different qualities of hardness and density for all applications.
On request we can supply the slabs with 1 acrylic / silicone adhesive side.
Our silicone slabs can be supplied in rolls or transformed into strips, gaskets, seals and finished products designed to specification.

SIL 30-80 FDA SOLID SILICONE SLABS

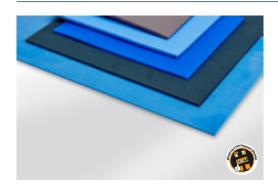
Silicone rubber slabs for applications requiring good sealing properties at high and low temperatures, from -40° C to $+200^{\circ}$ C and up to 230° C for short times.

Compliant with the FDA 177.2600 and CE 1935/2004 standards, suitable for direct contact with food.

Available in white, transparent, black, blue and brick red, thicknesses from 0.3 mm to 20 mm. The slabs are also available in versions with adhesive backing or transformed into strips, seals, gaskets, washers and finished products designed to specification.



SIL-ST PRINTED SILICONE SLABS



Printed silicone slabs, available in various colours and hardness, in the format $362\ x\ 362\ mm$

Hardness range from 20 to 90 Shore A in all colours.

SIL-H.T HIGH TEMPERATURE RESISTANT SILICONE SLABS FDA

The H.T. silicone slabs (High Temperature) withstand up to 300°C and intermittently to 315°C. Compliant with the FDA 177.2600 and CE 1935/2004 standards, these silicone slabs are also suitable for applications involving direct contact with food.



SIL-UL94VO FLAME RETARDANT SILICONE SLABS



Sil-UL94VO silicone slabs are the ideal solution when flexibility is needed, but with the added advantage of the flame-retardant properties.

Flame retardants according to the UL94V0 standard (3 mm), these slabs also meet the requirements for the railway sector, BS6853 Cat 1A and the French standard NFF 16-101, which will be replaced by the TS EN 45 545-2 standard.

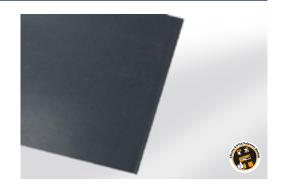
Available in grey / black, width 1000 mm.

Also available with adhesive backing or transformed into strips, seals, gaskets, washers and finished products designed to specification.

SIL-COND ELECTRICALLY CONDUCTIVE SILICONE SLABS

Electrically conductive silicone slabs, filled with carbon black which acts as a conductor for low amperage, thus guaranteeing protection from electrostatic discharges.

Available in rolls and slabs of 915 mm width and in thicknesses of 1.6 mm, 2 mm and 3.2 mm, also with adhesive backing or transformed into strips, seals, gaskets, washers and finished products designed to specification.



SIL-R.V REINFORCED SILICONE SLABS.



Silicones reinforced by a fibreglass layer resist tearing and are non-slip. Used for membranes, gaskets and anti-stretch seals.

Compliant with the FDA 177.2600 and CE 1935/2004 standards, they are suitable for direct contact with food.

Available in 1/1.2 m width and in the following thicknesses: 2 mm, 3 mm, 4 mm, 5 mm and 6 mm. Other thicknesses are available upon request.

SIL-VACUUM SILICONE MEMBRANE

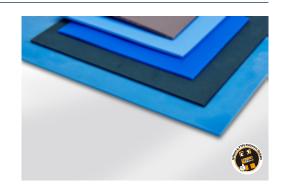
Tear-resistant silicone slabs with excellent elongation characteristics.

Sil-Vacuum is used for forming and for vacuum bags; it has a high elasticity (750%) and resistance to wear and punctures.

These slabs are used in the lamination of composite materials and photovoltaic systems and for veneering doors and furniture.

Available with a 50 Shore A hardness and various colours: transparent slightly blue, translucent, green, blue, grey.

Width from 1.8 m to 2.5 m; they can be supplied in the form of sheets or transformed into strips, seals, gaskets, washers and finished products designed to specification.



SIL-PLT 30-80 FDA PLATINIC SILICONE SLABS



Platinic silicone slabs with high tear resistance, excellent transparency and absence of peroxide by-products, which are instead present in vulcanised sheets.

They comply with the FDA, BfR, USP Class VI and EP 3.1.9 standards.

SIL-ANTIBACTERIAL FDA ANTIBACTERIAL SILICONE SLABS

Available in solid and foam form.

Sil-Antibacterial FDA has been proved to prevent the growth of E-coli, MRSA, salmonella.

Its sterile qualities make it particularly suitable for use in the dairy, food, beverage and pharmaceutical sectors.

This product can be supplied in various forms: slabs and rolls, milk tubes and flexible hoses, extruded profiles, gaskets according to customer specifications.





SIL-METAL FDA SILICONE SLABS FOR METAL DETECTION



Available in solid and foam form.

By using Sil-Metal FDA, currently commonly used in many pharmaceutical applications or in food processing, it is possible to safely locate and isolate fragments of gaskets and damaged seals. Compliant with the FDA standard 177.2600 (Articles destined to direct contact with food), they are available in standard production in blue, in rolls of 1/1.2 m in width, in thicknesses from 1 to 10 mm, with a hardness of 65 Shore A.

Available with adhesive backing or transformed into strips, seals, gaskets, washers and finished products designed to specification.

SIL-FLUOROSIL FLUOROSILICONE SLABS

Fluorosilicone slabs resistant to combustible and chemical substances, ideal for gaskets in harsh environments.

The main features are great resistance to high and low temperatures and low compression deformation

Compliant with MIL-R-25988 type 2 GD60 and AMS 3325 Class 1 standards, they are available in 915 mm width and in 0.5 mm, 0.8 mm, 1 mm, 1.6 mm and 3.2 mm thicknesses.

Blue colour and 60 Shore A hardness; other options on request.

Available with adhesive backing or transformed into strips, seals, gaskets, washers and finished products designed to specification.



SIL-SUPERCLEAR TRANSPARENT SILICONE SLABS



Produced from liquid silicone rubbers (LSR), they offer excellent transparency. Made with platinum-cured silicone, they are resistant, flexible and have anti-vellowing properties.

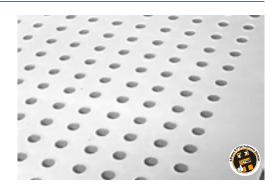
Applications include "invisible" seals, keypad and moisture protection for portable electrical device panels.

Available in rolls of 915 mm in width and in the following thicknesses: 0.25 mm, 0.5 mm, 0.8 mm, 1.6 mm and 3.2 mm.

Available with adhesive backing, they can be supplied in the form of slabs or transformed into strips, seals, gaskets, washers and finished products designed to specification.

SIL-PERFOR PERFORATED SILICONE SLABS

Perforated silicone rubber sheet, available in a variety of widths and thicknesses. Suitable for drainage of dishwasher mats, autoclaves in medical offices, breathable solutions. Formats with 1.2 m height and in various thicknesses. Other combinations are available based on specific customer requests.



SILICONE STRIPS AND RODS



Silicone strips are available extruded or cut from slabs, with different widths, in white, oxide red, transparent, black and blue.

Available in different solutions, such as generic use silicone with variable hardness, flame retardant, for metal localisation and for high temperatures up to 300°C. Also available with adhesive backing.



Silicone rods are available with 40/60 Shore A hardness, in oxide red, white and transparent. Other colours are available on request.

Diameters from 1 mm to 100 mm, length 1 m.

Silicone slabs



Silicone Expanded Slabs

SILICONE FOAM SLABS

HIGH RECOVERY SILICONE FOAM SLABS

THERMALLY CONDUCTIVE FOAM SILICONE SLABS

EXPANDED FLUOROSILICONE SLABS

SILICONE FOAM STRIPS

SILICONE FOAM RODS AND TUBES

Different qualities of hardness and density for all applications.
On request we can supply the slabs with 1 acrylic / silicone adhesive side.
Our silicone slabs can be supplied in rolls or transformed into strips, gaskets, seals and finished products designed to specification.

Silicone foam slabs

SIL-EXP 200 - SIL-EXP 250 - SIL-EXP 400 - SIL-EXP 500 SILICONE FOAM SLABS

Rolls available in 1 m width, 10 m and 5 m lengths and in four different densities: 200, 250, 400 and 500 Kg/m^3 .

Thicknesses: from 1.5 mm to 30 mm.



SIL-EXP I.T. HIGH RECOVERY SILICONE FOAM SLABS DS 200-800



Slabs and rolls of silicone foam with high recovery finish, available in black, grey and red.

Thicknesses from 1.6 mm to 15 mm, width from 915/1000 mm x 10 mm.

Also available with adhesive backing or transformed into strips, seals, gaskets, washers and finished products designed to specification.

SIL-EXP COND THERMALLY CONDUCTIVE SILICONE FOAM SLABS

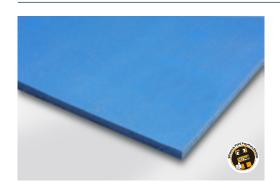
Sil-Exp Cond is a closed-cell thermally conductive silicone rubber foam, able to offer thermal conductivity together with electrical insulation. This is the best choice for seals and bearings where thermal transfer and seals are of paramount importance.

Available in both 915 mm x 915 mm slabs and 915 mm wide rolls, it can be supplied with acrylic pressure adhesive or silicone adhesive on one side. Thickness: $0.8 \, \text{mm}$, $1.6 \, \text{mm}$, $2.4 \, \text{mm}$, $3.2 \, \text{mm}$, $4.8 \, \text{mm}$ and $6.35 \, \text{mm}$ (the $6.35 \, \text{mm}$ version is only available in 915 mm x

915 mm slabs). As with all our silicone sheets, it can be transformed into strips, seals, gaskets, washers and finished products.



SIL-EXP FLUOROSIL FLUOROSILICONE FOAM SLABS



Suitable for applications which require sponges resistant to combustible and volatile chemicals, this product has a finish (fabric impression) on both sides.

Available in the version with or without adhesive backing, it can be supplied in slabs or transformed into strips, seals, gaskets, washers and finished products. Available in 914 mm x 914 mm blue slabs, with thicknesses of 0.8 mm, 1.59 mm, 2.4 mm and 3.2 mm.

Silicone foam slabs

SIL-EXP 200 - SIL-EXP 250 - SIL-EXP 400 SILICONE FOAM SLABS

Silicone sponge strips can be extruded or cut from slabs. They are all silicone sponges for general use, in different colours: Sil-Exp 200 white, Sil-Exp 250 black, Sil-Exp 400 oxide red and white.







SIL-EXP 200-500 SILICONE FOAM RODS AND TUBES





Foam silicone rods are commonly used to seal electrical substations and to illuminate exteriors and portable instruments, protecting them from moisture and dust.

They are available with various densities, including Sil Exp 200, Sil Exp 250, Sil Exp 400, Sil Exp 500.

If a sponge complying with FDA regulations is required, we can offer platinum-cured silicone compliant with FDA 177.2600 and CE 1935/2004 standards.

Available in white and black, other colours on request. They can be supplied in reels, cut to length or cut and joined in O-rings.

Coextruded and extruded silicone profiles



Coextruded and extruded silicone profiles

SILICONE EXTRUDED PROFILES
SILICONE PROFILES FOR EDGES
SILICONE FOAM PROFILES

Silicone extruded profiles

SILICONE EXTRUDED PROFILES

A wide range of sections and profiles is available in all the most common silicone compounds, i.e. for food, flame retardants, for high and low temperatures, for vapour resistance levels, etc. Silicone extrusion dies are cheap and simple to produce (among the most widespread forms, we mention the "T", "e", "U", "D", "P"-type sections).



SILICONE PROFILES FOR EDGES





Silicone "U" profiles for edges, available in three colours: black, white and transparent.

Produced with top quality platinum-cured silicone, they have a smooth and shiny surface and are anti-yellowing.

SILICONE FOAM PROFILES

Characterised by a closed cell structure with high compressibility, foam silicone profiles are particularly suitable for making sealing gaskets where it is necessary to compensate for differences in planarity on the supporting surface.

We have compounds in four densities (200, 250, 400 and 550 Kg/m³) and formulations suitable for contact with food (Food Grade) and self-extinguishing (Fire Retardant).

They can be extruded or cut from slabs; on request, additional materials and densities are available (260°C temperature: available in a wide variety of colours also for metal localisation).





TUBES



TUBES

PLATINIC SILICONE TUBES

SILICONE TUBES WITH PEROXIDE

SILICONE TUBES FOR THE DAIRY INDUSTRY

COLOURED SILICONE TUBES

SILICONE TUBES FOR FUELS

POLYESTER / GLASS / ARAMID REINFORCED SILICONE TUBES

SILICONE TUBES FOR VACUUM

SILICONE TUBES FOR THE AUTOMOTIVE / MARINE / INDUSTRIAL SECTORS

Tubes

SIL-FDA (PLATINUM CURED) PLATINUM SILICONE TUBES

Sil-FDA (Platinum Cured) silicone tubes offer a number of advantages over conventional peroxide silicone tubes, for example:

- they do not turn yellow
- they do not have peroxide by-products
- high tear resistance
- glossy finish
- excellent quality
- high water repellence
- extended life in peristaltic pumps.

 $Platinic\ silicone\ tubes\ are\ WRAS,\ NSF,\ FDA\ approved.$

Available in grey, white, translucent and black.



SIL-P SILICONE PEROXIDE SILICON TUBES

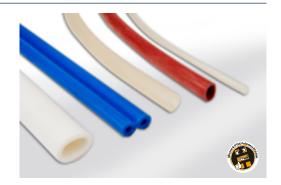


A range of translucent, peroxide-cured (Sil-P) silicone tubes with an internal diameter of 30 millimetres and over, made with a 60 Shore A hardness is available.

Sil-P silicone peroxide silicon tubes					
INTERNAL DIAMETER	THICKNESS	EXTERNAL DIAMETER			
mm	mm	mm			
30	3	36			
32	4	40			
35	3	41			
38	5	48			
40	3	46			
40	4	48			
40	5	50			
45	4	53			
50	3	56			
50	5	60			
60	4	68			

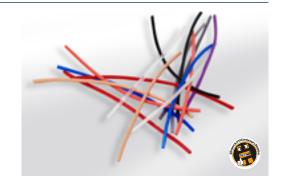
SIL-MILK SILICONE TUBE FOR THE DAIRY INDUSTRY

Tubes for the dairy industry, where mainly platinum-cured silicone is used, thanks to its high resistance to mechanical wear and to the excellent tear resistance. The extrusion dies are particularly shiny, to facilitate an adequate flow rate and maintain a good level of hygiene.



SIL-COLOR COLOURED SILICONE TUBES

Sil-Color is a coloured tube available in a wide range of colours, white, blue, red, black, orange, green, yellow and metallic black (other colours are available on request). The coloured silicone tube is widespread in automotive and industrial applications, it is suitable for contact with food and fully complies with FDA 177.2600 and CE 1935/2004 standards.



Tubes

SIL-FUEL SILICONE TUBES FOR FUELS

The Sil-Fuel line for fuels is the preferred version in the modelling sector thanks to its superior quality and resistance to fuels, methanol and nitro, together with exceptional aesthetic qualities. Internal diameter of 2.3 mm and external diameter of 5.5 mm. They are not suitable for use with petrol. The following colours are available:

- fluorescent green
- fluorescent orange
- fluorescent yellow
- fluorescent pink
- shades of green
- shades of blue
- shades of red
- shades of transparent violet.



SIL-HOSE/PY/VE/KV POLYESTER/GLASS/ARAMID REINFORCED SILICONE TUBES



Reinforced silicone tubes are made with different types of silicone and have a diameter between 3 mm and 50 mm. These tubes are mainly braided with polyester or glass thread, while aramid is used for special reinforcements.

Platinum-cured transparent tubes are often chosen for applications which require a high level of transparency, absence of peroxide by-products and medical and pharmaceutical specifications; tubes with a peroxide-cured exterior, red or blue, on the other hand, meet the demand for cheaper but high-performance industrial quality tubes.

SIL-VACUUM/PRESS SILICONE TUBES FOR VACUUM

Tubes made with a spindle generally replace the braided format, where the range of measurements goes beyond the limits of extruded products and when a metal spiral (stainless steel) is required for vacuum applications. It is possible to make tubes up to 300 mm in diameter. Our range of spindle-made tubes also includes platinum-cured tubes for pharmaceutical applications.

These tubes can be classified into two categories:

- Food / Pharmaceutical (pressure hoses)
- Food / Pharmaceutical (vacuum tubes).



SIL-HOSE/TRACK SILICONE TUBES FOR THE AUTOMOTIVE / MARINE / INDUSTRIAL SECTORS



Tubes made with a spindle generally replace the braided format, where the range of measurements goes beyond the limits of extruded products and when a metal spiral (stainless steel) is required for vacuum applications. It is possible to make tubes up to 300 mm in diameter. Our range of spindle-made tubes includes coloured peroxide-cured tubes for refrigerants and various types of flame retardant and industrial ones for technical applications.

Seals and gaskets



Seals and gaskets

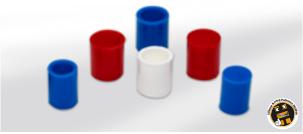
PLUGS, WASHERS, SEALS AND GASKETS
SILICONE PRIMERS AND ADHESIVES

Seals and gaskets

SILICONE PLUGS, WASHERS, SEALS AND GASKETS

The finished products department has a wide range of cutting machines, for seals cut from foam slabs and solid slabs and for cutting tubes into washers and sleeves. We also produce gaskets and extruded sections, together with various finished products.





SILICONE PRIMERS AND ADHESIVES



As a complement to our wide range of Silicone products, we offer different types of Wacker Chemie and Momentive Performance Silicone primers and adhesives.

Silicone primers and adhesives					
CODE	COLOUR	FDA	TEMP. ADHESIVES	RANGE OF PROPERTIES	
RTV 102	white	+	- 60°C to + 205°C	Non Slump General Purpose	
RTV 112	white	+	- 60°C to + 205°C	Self-levelling General Purpose	
RTV 103	black	+	- 60°C to + 205°C	Self-levelling General Purpose	
Fluorine RTV 730	white	-	- 60°C to + 205°C	Solvent resistant	
E43	translucent	+	- 60°C to + 205°C	Non Slump General Purpose	
E41	translucent	-	- 60°C to + 205°C	Self-levelling General Purpose	
E70	oxide red	-	- 60°C to + 205°C	High temperature	





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