

COMPANY BROCHURE









Our Promise

To produce exacting quality approved materials and products of the highest standards in a rapid turnaround.



Vision

To be recognised worldwide as the brand of choice in silicone sponge



A family owned company that understands the importance of trust and great, positive relationships. We want to create strong and long lasting business partnerships for the benefit of both parties.



Industry specialists in silicone sponge, boasting **50+ years combined experience**. Based in Blackburn, UK, PremSil has grown from a local manufacturer to supplying hundreds of customers across Europe and the rest of the world.



A trained team of experts dedicated to the production of silicone sponge. Our team have the experience and quality to deliver quality products consistently, made to some of the tightest tolerances on the market according to ISO 3302-2:1996 and our **ISO 9001** accreditation.



Over 300 companies supplied to across the UK and internationally.

WE PROMISE



Premium Quality

Our production team have the experience to deliver quality, consistently. Able to product practically any profile in sponge to the tightest tolerances.



Premium Partnership

A friendly service, building great relationships. We will work closely with you to develop cost effective solutions of the highest standards. Low minimum orders. New dies produced & samples out in 2-3 days.



Premium Efficiency

A dynamic responsive service.
We aim to respond to all enquiries within 3 hours. Bespoke products produced within 15 working days and an expres service to produce & despatch in 3 working days.



Premium Team

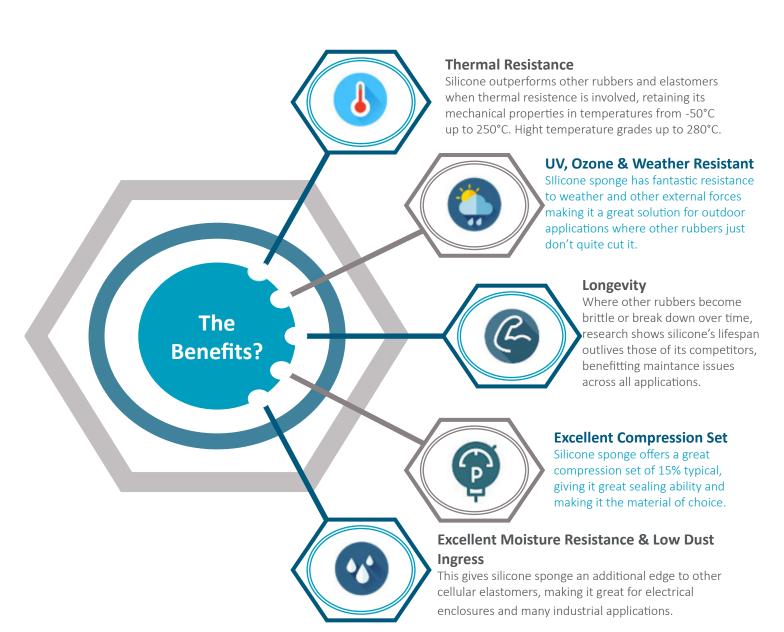
A highly skilled team, with 50+ years combined experience, which is always on hand to help guide and meet your bespoke needs.



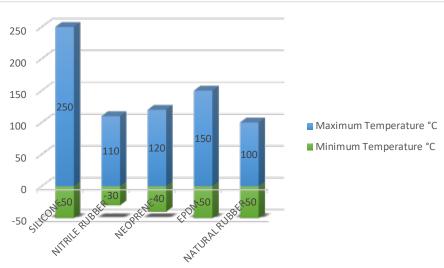
SILICONE Vs. RUBBER

As a man-made polymer, silicone, whilst still a rubber, is better referred to as a synthetic rubber or elastomer. It is engineered to give a variety of benefits over more conventional elastomers and rubbers.

- Silicone's extreme temperature resistance means it out performs and out-lives most other elastomers.
- Where other rubbers will crack, break or become brittle in harsh environments, silicone's excellent resistance to UV, Ozone and weathering means it is the product of choice to meet these issues head-on.
- As a great insulator, silicone can and is used in many thermal insulation applications where other rubbers would fail.
- As a sponge, it is inherently more cost effective when compared to solid silicones or other rubbers



Thermal Resistance Vs Other Rubbers



A Diverse Product

Silicone Sponge is available in a range of grades allowing it suitability to a diverse range of applications.

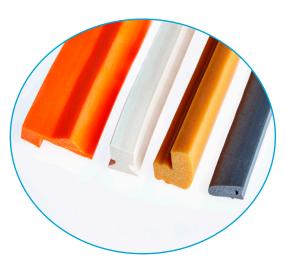
GP- General Purpose. (PremSil P10, P16, P24, P33)

HT - High Temperature

FDA- Fully Compliant to FDA 21 CFR 177.2600

FR- Flame Retardent. Compliant to UL94-VO.

RG - Rail Grade. Low smoke/toxicity. Compliant to EN45545-2.



WHY PREMSIL?



Quote Return

95% within 24 hours. 65% within 2-3 hours.



Quality

Non-conformances



On Time Despatch



Product Development

We work with you to develop your silicone sponge solutions.



Lead Times

We offer some of the fastest lead times in the industry. 2-3 weeks typical.



Quality Assured

Quality assured for consistent products.



Customer Satisfaction

100% of customers surveyed rated us Good or Excellent.







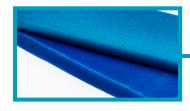
GENERAL PURPOSE

Our general purpose grade is fit for a huge range of applications. Available in all formats and any colour. Produced in 4 standard densities (P10, P16, P24, P33), with custom densities also available to suit the intended application.



FLAME RETARDENT

Our PremSil FR silicone sponge is perfect for applications requiring a material able to overcome the risk of fire. Independantly tested and certified to UL94-V0 standards, PremSil FR proves a reliable solution. Available in P16- P33.



PREMSIL P20 FOODSAFE

A custom made grade with medium density of approx. 300Kg/m3. Tested and compliant to FDA 21 CFR 177.2600 extraction tests (Sect. E-F), PremSil P20 FS proves a cost effective and popular solution for multipurpose applications.





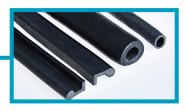
HIGH TEMPERATURE

Manufactured specifially for demanding applications where the product must withstand extreme temperatures, our HT grade is available in P10 - P33 and able to withstand temperatures of -50C to +280C.



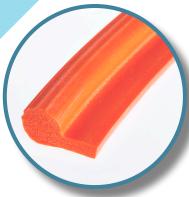
FDA SILICONE SPONGE

PremSil P201F FDA is our platinum cured, fully compliant FDA silicone sponge, perfect for food & beverage and many medical applications. Manufactured with only pre-approved materials according to FDA 21 CFR 177.2600 and tested to the same FDA regulations. Available in White & Blue colour. 400Kg/m³



RAIL GRADE

PremSil PSSRG-250 is one of our specialty grade silicone sponges, formulated specifically for the rail industry. Compliant to EN45545-2 this low smoke/low toxicity sponge is well suited a multitude of applications. Black/Grey colour.



Extruded Profiles & Sections

We manufacture a huge range of silicone sponge profiles. Our standard sizes range from **2mm** to **100mm**. With 50+ years combined experience, PremSil offers bespoke solutions to your needs and our expertise means we can produce practically any shape or profile. PremSil sponge profiles inherently a **cost effective** solution compared to solid profiles.



Extruded Cord

With sizes from as small as **1mm** to as large as **110mm**, our silicone sponge cord is perfect for many sealing applications across all industries. Able to be supplied in coils, spooled, specified cut lengths or fabricated into **vulcanized rings.** All extrusions are made to strict tolerances, E3 as standard and up to the tightest E1 tolerances on request.



Extruded Tubes

Silicone sponge's cushioning properties has seen our extruded tubes become a popular choice for many applications, particularly ideal in applications such as printing, paper making & converting, flexography and industrial rollers. Available with inside diameters from **2mm** to **75mm** as standard and outside diameters from **4mm** to **100mm** as standard. Larger tubes available depending on size and grade.

FEATURES & BENEFITS



Closed cell



Good compression set for sealing applications.



Low water absorbtion & dust ingress.



Full in-house control of process from start to finish for a consistent product



UV, Ozone & weather resistant.



Lightweight material.



Excellent thermal resistance.



Excellent tear resistance.

APPLICATIONS

PremSil extruded profiles are well suited to applications for sealing, vibration dampening, themal insulation, flexibility, weather resistance, noise reduction and extreme temperatures. Silicone sponge's flexibility make it succeed where many solid profiles might fail and a great compression set means a longer lifespan, decreasing the need for maintenance.

Available Grades:

General Purpose (P10, P16, P24, P33), HT, FR, P201F FDA, P20 FoodSafe, PSSRG-250.

Additional Options:

Self-adhesive backed, cut lengths, joined to rings/gaskets.

EXTRUDED SHEETS

PremSil offers only the highest quality silicone sponge sheets. Our in-house silicone compounding facility gives us a competitive advantage, whilst maintaining full-quality control and material integrity at every stage of the process from start to finish. They offer excellent thermal stability to withstand the extremes of temperature from -50°C up to 250°C, resistance to UV and Ozone and excellent compression set of <15% typical. This makes the product particularly suited to demanding temperature applications that require a soft compressible material and is commonly used in environmental shields, electrical and automotive gaskets, are the ideal choice for gaskets and sealing applications across a wide variety of markets.



Available Grades:

General Purpose (P10, P16, P24, P33), HT, FR, PSSRG-250.

Additional Options:

Self-adhesive backed, fabric finish 1 or 2 sides, cut to gaskets.

Sizes:

We produce individual sheets $1000 \, \text{mm} \times 600 \, \text{mm}$ as standard in thicknesses from $2 \, \text{mm}$ to $40 \, \text{mm}$. We also manufacture $1 \, \text{m} \times 1 \, \text{m}$ and $1400 \, \text{mm} \times 600 \, \text{mm}$ in thicknesses from $10 \, \text{mm}$ to $25 \, \text{mm}$. Custom sizes available on request.

Thickness	Tolerances		
	(ISO 3302-1:1996 ST3 Good Quality)		
>1.6- 2.5mm	+/-0.4mm		
>2.5mm- 4.0mm	+/-0.5mm		
>4.0mm- 6.3mm	+/-0.7mm		
>6.3mm- 10mm	+/-0.8mm		
>10.0mm- 16mm	+/-1.0mm		
>19.0mm- 25mm	+/-1.75mm		
>25.0mm- 40mm	+/-2.25mm		

APPLICATIONS

An elastomer designed for unrivalled reliability in sealing, cushioning, vibration dampening and insulation. They offer excellent thermal stability to withstand the extremes of temperature from -50°C up to 250°C, resistance to UV and Ozone and excellent compression set of <15% typical. This makes the product particularly suited to demanding temperature applications that require a soft compressible material and is commonly used in environmental shields, electrical and automotive gaskets, are the ideal choice for gaskets and sealing applications across a wide variety of markets.

FEATURES & BENEFITS



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Full in-house control of
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for a consistent



UV, Ozone & weather resistant.



Excellent thermal resistance.



Smooth skin

SHEET ROLLS

PremSil supplies the best quality closed cell Silicone Sponge rolls in addition to our individual sheeting range. Providing excellent resistance to environmental factors like Ozone, UV and weathering, whilst also having extreme temperature resistance - it is the perfect, robust material for applications demanding longevity where conditions may be unstable or volatile.





Sizes:

Rolls are available up to 1m wide x 10m long and in thicknesses from 1.5mm to 15mm. Larger thicknesses are also available in individual sheet format.

Available Grades:

General Purpose (P10, P16, P24, P33), HT, FR, Flourosilicone

Additional Options:

Self-adhesive backed, cut to gaskets.

Thickness (mm)	Roll Size	Tolerances (mm)	Thickness (mm)	Roll Size	Tolerance (mm)
1.5	1m x 10m	+/-0.5mm	8	1m x 10m	+/-0.75
2	1m x 10m	+/-0.5mm	10	1m x 10m	+/-0.8
2.5	1m x 10m	+/-0.5mm	12	1m x 10m	+/-1.0
3	1m x 10m	+/-0.5mm	15	1m x 5m	+/-1.5
3.5	1m x 10m	+/-0.5mm	20	1m x 1m	+/-2.0
4	1m x 10m	+/-0.5mm	25	1m x 1m	+/-2.5
5	1m x 10m	+/-0.5mm	30	1m x 1m	+/-2.5
6	1m x 10m	+/-0.75mm			
7	1m x 10m	+/-0.75mm			



WHY NOT LET US HELP?



PremSil understands that our customers have diverse and specific requirements and we offer a range of standard section sizes. An area we pride ourselves in is our capacity to provide specialist technical back up to assist our customers with the development of your Silicone Sponge product. Whether seeking an alternative to your current material, solutions to a current issue you're experiencing or exploring options for an entirely new project, we're always happy to assist!

ADDITIONAL SERVICES...



GASKET CUTTING

We have the facility to vulcanise (glue & joint) gaskets or punch from sheets & extrusions. Small or large requirements, look no

O-RINGS

Our in-house jointing facility means we not only produce the material you needd, but we can also join to individual rings as required. With fast turnarounds included and little to no set up fee, we've got everything handled under one roof.



PSA BACKING

Our specially designed equipment allows us to apply PSA to a variety of products, and PSA backing is available on a range of our products, from sheets and gaskets to bespoke extrusions.

EXPRESS SERVICE

"We need it yesterday!" – working in an industry with fluctuating lead times, PremSil understands the need for urgency, especially when each day without the parts you require can prove extremely costly. Whether this is the case or you're simply looking for the fastest turnaround, our Express Service has an average turnaround within 3 days to despatch (subject to order requirements).



