History

SAS Industries, Inc. (SAS) has been producing gasketing products since 1973. We bring to you decades of experience and centuries combined in the gasketing field to help you with all of your sealing needs.

At SAS our core goal is and always will be to satisfy the customer at all levels; delivery, quality, and price. We pride ourselves on being your single source for not just your all of your gasketing needs.

Thanks to our customers we have been able to move from a small 1 man operation in 1973 hand cutting gaskets out of the back of a retail store in Wantagh, NY to a thriving global business with the latest state of the art equipment available.

As we look to the future we do so with optimism and intrigue. We look forward to discovering and creating solutions for applications that we can not yet imagine.

Discovering new techniques and developing new methods is what drives us and nothing gives us more satisfaction then collaborating with you to solve a sealing problem.

State Of The Art Manufacturing Methods

At SAS we pride ourselves on our people and our machinery. Our facilities include state of the art inspection machinery such as:

- Amada by Virtek Laser Inspection System (48” x 48”)
- Instron 3345 Material Tester (56” Travel)
- Flow Integrated Flying Bridge Water Jet (6’x12’)
- Boy 55E Liquid Injection/Injection Molding Press w/ Fluid Automation Delivery System
- Haas VF3YT Vertical Milling Center
- Various Freeman Schwabe Die Cutting Presses
- Various Compression Molding Presses
- Various Transfer Molding Presses
- Vacuum Molding Presses
- Various Extruders
- Automated Compounding Machines
- Slitters
- Autobag AB180 Bagger w/ PI-412C Thermal Transfer Printer
- Climate Controlled Material Storage

Along with our machinery we also have state of the art custom logistics systems that we tailor to your requirements. All products that ship from SAS are fully Code 39 bar coded and have full lot, cure date, and shelf life traceability.

Our Commitment

At SAS one of our main goals is, has always been, and will always be delivering your product on time. We pride ourselves on both industry leading quote and delivery times. We accomplish this by maintaining complete control of all manufacturing processes. This enables us to give you the best quality product at the lowest price with no unforeseen delays. It also enables us to quote your product without waiting for pricing from a subcontractor.

All The Benefits Of A Large Business From A Small Family Owned Business

Thanks to our many loyal customers throughout the years we have been able to keep up and exceed the R&D expenditures of many of the large companies in our field. We have done this by maintaining our innovative spirit and through the knowledge and expertise of our invaluable staff, all while maintaining the personal attention you expect from a small family owned business.

AS9100 Rev C Registered
10013129 ASH09-1

ISO 9001:2008 Registered
10013129 QM08

ITAR Registered

FSCM 4L975
Material Sampler Book

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- EPDM (Ethylene Propylene Diene Monomer) Rubber
- Viton™ (Fluorocarbon) Rubber

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  Saint Gobain™ R10470F
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  Saint Gobain™ R10480M
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- SAS SEALTRON® 1056 Silver Aluminum filled Silicone
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- SAS SEALTRON® 3140 Woven Aluminum in Silicone
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- Branded Vellumoid
- Interface Solutions CN705
- Interface Solutions TS9003
- Interface Solutions TN9000
- Interface Solutions CS-301
Synthetic Rubber

Synthetic Rubber is perhaps the staple of what we do. We can take any Synthetic Rubber, even one’s not listed here (i.e. Butyl, SBR, etc.) and fabricate it into anything you can imagine. Whether it is a flat cut product, a 3 dimensional molded product, or an extruded product. We employ all the capabilities in house to get the final product you desire. Synthetic Rubbers are the staple of gasketing materials and fulfill a broad range of needs. Synthetic Rubber is available in virtually all colors and formats.

Advantages:
- Very high resistance to O-Zone, Oil, and many common chemicals.
- Sustained Performance in Aggressive Chemical Environments.
- Good resilience, tensile, and compression set. Very resistant to both mineral and vegetable oils.
- Great for outdoor environments. Offers excellent resistance to both ozone, oxidants, and severe weather conditions.

Disadvantages:
- Susceptible to esters, oxidizing acids, ketones, chlorinated, aromatic and nitro hydrocarbons.
- Susceptible to ozone, ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.
- High Relative Cost to base rubbers such as Neoprene/EPDM/Nitrile.

Methods Of Manufacture:
- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding
- Injection Molding
- Liquid Injection Molding
- Extruding
- CNC Milling

Neoprene (Chloroprene) Rubber
Advantages: Very high resistance to O-Zone, Oil, and many common chemicals.
Disadvantages: Susceptible to esters, oxidizing acids, ketones, chlorinated, aromatic and nitro hydrocarbons.

Nitrile (Buna-N) Rubber
Advantages: Good resilience, tensile, and compression set. Very resistant to both mineral and vegetable oils.
Disadvantages: Susceptible to ozone, ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.

EPDM (Ethylene Propylene Diene Monomer) Rubber
Advantages: Great for outdoor environments. Offers excellent resistance to both ozone, oxidants, and severe weather conditions.

Disadvantages: Bad electrical insulator, very low tensile strength and resilience. Susceptible to mineral oils, solvents, and aromatic hydrocarbons.

Viton™ (Fluorocarbon) Rubber
Advantages: Sustained Performance in Aggressive Chemical Environments.
Disadvantages: High Relative Cost to base rubbers such as Neoprene/EPDM/Nitrile.

Viton™ is a trademark of DuPont™ Performance Elastomers LLC
**Solid Silicone Rubber**

Solid Silicone is the easiest of rubber polymers to manufacture from and boasts the best operating temperatures among rubbers. Solid Silicone also has the inherent advantage, in high volume molded applications, of being able to be automated through the use of a Liquid Injection Molding processes. Silicone is at the forefront of what we do here at SAS. Perhaps the only drawback is it does not have the robust Chemical Resistance of some other rubbers and it’s dielectric properties. Silicone Rubber is available in virtually all colors and formats.

**Advantages:** Excellent Thermal Stability (consistent performance over -100 to +250 °C), Repels Water to form a Water Tight Seal, Excellent Resistance to Oxygen, Ozone, and Sunlight, Good Electrical Insulation, Low Chemical Reactivity, Low Toxicity, High Gas Permeability.

**Disadvantages:** Dielectric and not as Chemically Resistant as Other Rubbers.

**Methods Of Manufacture:**
- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding
- Injection Molding
- Liquid Injection Molding
- Extruding
- CNC Milling

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**Fluorosilicone**

**Advantages:** All The Advantages of Silicone, Added Resistance to Certain Jet Fuels And Other Chemicals.

**Disadvantages:** Higher Relative Cost Than Silicone.
Closed Cell Silicone Sponge

Silicone Sponge is a great gasketing material for applications requiring robust temperature ranges and a soft, compressible material. It has all the great advantages of Solid Silicone and is much more compressible. It’s major draw back, comparatively, would be its limited manufacturing methods. Silicone Sponge is available in many colors and formats.

Characteristics:
- Various Densities, Commercial Grade Silicone Sponge.

Methods Of Manufacture:
- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding

Saint Gobain™ R10470M

Characteristics: Medium Density, General Purpose Silicone Sponge.

Saint Gobain™ R10470F


Saint Gobain™ R10450


Saint Gobain™ R10460

Characteristics: Flame Retardant when held in a vertical position and exposed to a 2,000 F flame for 12 seconds, there is no residual flame and less than a 10 second afterglow. Extremely low compression Set.

Saint Gobain™ R10490

Characteristics: Fluorosilicone Sponge Rubber.

Saint Gobain™ is a trademark of the Saint-Gobain™ Company
Sponge Rubbers are great gasketing materials for applications requiring soft, compressible material. Bisco™ offers various Silicone options such as the one’s listed below. Not a Silicone, Bisco™’s Poron™ is our go to choice when compression set is a concern, available in various densities. Finally when Open and Closed Cell solutions are needed and Silicone is not an option there is also a wide range of choice in the Neoprene, Nitrile, and various other families maintained under the MIL-R-6130 specification. These materials are available in various colors and can be cut to any design.

**Characteristics:** versatile, medium firmness silicone that offers the lightness of a foam, with the enhanced sealing capabilities of a traditional sponge rubber.

**Advantages:** Excellent Compression Set Offering Long Term Performance, Low Outgassing and Non-Fogging, Non-Corrosive to Metal, Excellent Performance from -40 to +90 °C, Good Chemical Resistance.

**Disadvantages:** Poor Fuel Resistance.

**Characteristics:** firm grade silicone foam that offers the enhanced sealing capabilities of a sponge rubber.

**Advantages:** Excellent Compression Set Characteristics.

**Disadvantages:** Poor Water Resistance.

**Characteristics:** Good Compression Set Characteristics.

**Disadvantages:** All The Disadvantages Of Its Base Solid Rubber Counterparts.

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**Methods Of Manufacture:**

- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding
- Injection Molding
- Liquid Injection Molding
- Extruding
- CNC Milling

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Bisco™ and Poron™ are trademarks of the Rogers™ Corporation
Coated Fabrics

Rubber Coated Fabrics offer many of the advantages of their rubber counterparts with added strength and rigidity thanks to the Fabrics within them. These gaskets are great for applications where high strength is required such as valve gaskets and other high pressure applications. These gaskets can be custom cut to any design.

Neoprene & Nylon

**Advantages:** Heavy Duty Gasket and Diaphragm Material. Very high resistance to O-Zone, Oil, and many common chemicals.

**Disadvantages:** Susceptible to esters, oxidizing acids, ketones, chlorinated, aromatic and nitro hydrocarbons.

Viton™ & Nomex

**Advantages:** Heavy Duty Gasket and Diaphragm Material. Sustained Performance in Aggressive Chemical Environments.

**Disadvantages:** High Relative Cost to base rubbers such as Neoprene/EPDM/Nitrile.

EPDM & Nylon

**Advantages:** Heavy Duty Gasket and Diaphragm Material. Great for outdoor environments. Offers excellent resistance to both ozone, oxidants, and severe weather conditions.

**Disadvantages:** Bad electrical insulator, very low tensile strength and resilience. Susceptible to mineral oils, solvents, and aromatic hydrocarbons.

Buna-N & Nylon

**Advantages:** Heavy Duty Gasket and Diaphragm Material. Good resilience, tensile, and compression set. Very resistant to both mineral and vegetable oils.

**Disadvantages:** Susceptible to ozone, ketones, esters, aldehydes, chlorinated and nitro hydrocarbons.

Methods Of Manufacture:

- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding
- Injection Molding
- Liquid Injection Molding
- Extruding
- CNC Milling

Coated Fabrics

Rubber Coated Fabrics offer many of the advantages of their rubber counterparts with added strength and rigidity thanks to the Fabrics within them. These gaskets are great for applications where high strength is required such as valve gaskets and other high pressure applications. These gaskets can be custom cut to any design.
Thermally Conductive Materials

SAS has access to many Thermally Conductive Materials from leading manufacturers such as 3M™, Bergquist™, Chomerics™, Laird™ Thermagon, Saint Gobain™, and other leading Thermally Conductive material manufacturers. For application assistance please contact one of our Sales Representatives.

There are many different options when Thermally Conductive Materials are required. SAS can cut to your design on various Sil Pad, Gap Pad, Hi-Flow Phase Change, and Thermally Conductive Adhesive Tape materials. There are thousands of different solutions, if you need application assistance simply contact us and we will help you or put you in touch with a Thermally Conductive industry expert that can help you. We convert from all the major names in the field.

Cork and Felt

SAS converts from a wide variety of Cork, Cork and Rubber, and Felt Products. Below is a partial listing of some of the materials that we work with. These can be custom cut to any design.

**Cork**

Characteristics: highly compressible in low-pressure applications. It is also flexible, allowing it to conform to curved shapes. Resists alkalies, acids, salts, water, grease, oil, and detergents.

**F-55 Wool Felt**

Characteristics: medium-to-low density felt recommended for uses where high durability is not required, such as anti-squeak strips and sound deadening.

**Cork and Rubber (MIL-C-6183)**

Characteristics: Cork blended with Neoprene or Buna-N. Compressibility similar to that of natural cork.

**SAE 50 Wool Felt**

Characteristics: high-grade, high density felt that is accurate, thin, and smooth.

Saint Gobain™ is a trademark of the Saint-Gobain™ Company

3M™ is a trademark of the 3M™ Corporation

Bergquist™ is a trademark of the Bergquist™ Company

Chomerics™ is a trademark of the Parker Hannifin Company

Laird™ is a trademark of Laird™ PLC
Conductive Particle filled Elastomers

SAS SEALTRON® Particle filled Elastomers are unique blends of highly conductive particles and various different formulations of Silicone, Fluorosilicone and EPDM blended together in order to create a highly conductive matrix within the different rubber polymer and copolymers. These are available in standard and custom colors and can be manufactured using various different methods.

Characteristics:
- Electrically Conductive Grade Silicone.
- Lowest Conductive Grade, Carbon Filled.

Methods Of Manufacture:
- Die Cutting
- Water Jet Cutting
- Injection Molding
- Liquid Injection Molding
- Compression Molding
- Extruding
- Transfer Molding
- CNC Milling

SAS SEALTRON® 1017 Carbon filled Silicone

Characteristics: Electrically Conductive Grade Silicone. Lowest Conductive Grade, Carbon Filled.

SAS SEALTRON® 1026 Nickel Graphite filled Silicone

Characteristics: Good Performance in Corrosive Environments, Conductive Silicone.

SAS SEALTRON® 1126 Nickel Graphite filled Fluorosilicone

Characteristics: Good Performance in Corrosive Environments, Conductive Fluorosilicone.

SAS SEALTRON® 1036 Silver Glass filled Silicone

Characteristics: Good Performance in Non Corrosive Environments, Conductive Silicone.

SAS SEALTRON® 1056 Silver Aluminum filled Silicone

Characteristics: Passivated Aluminum, Excellent In Corrosive Environments, Conductive Silicone.

SAS SEALTRON® 1157 Silver Aluminum filled Fluorosilicone

Characteristics: Passivated Aluminum, Excellent In Corrosive Environments, Conductive Fluorosilicone.

SAS SEALTRON® 1066 Silver Copper filled Silicone


SAS SEALTRON® 1167 Silver Copper filled Fluorosilicone


SEALTRON® is a trademark of SAS Industries, Inc.
SAS SEALTRON® Expanded Metal/Woven Screen Cloth in Elastomers are perfect for use in applications where there are space concerns and/or where joint unevenness does not exceed .004 inches. These blended products maintain many of the advantages of each of their respective metal and elastomer combinations. They can be custom cut to any design.

**SAS SEALTRON® 3020 Expanded Aluminum**

**Characteristics:** Shielding Characteristics Of Expanded Aluminum, No Pressure Sealing.

**SAS SEALTRON® 3010 Expanded Monel**

**Characteristics:** Shielding Characteristics Of Expanded Monel, No Pressure Sealing.

**SAS SEALTRON® 3120 Expanded Aluminum in Silicone**

**Characteristics:** Shielding Characteristics of Expanded Aluminum, Pressure Sealing Of Silicone.

**SAS SEALTRON® 3220 Expanded Aluminum in Neoprene**

**Characteristics:** Shielding Characteristics of Expanded Aluminum, Pressure Sealing Of Neoprene.

**SAS SEALTRON® 3140 Woven Aluminum in Silicone**

**Characteristics:** Shielding Characteristics of Woven Aluminum Screen Cloth, Pressure Sealing Of Silicone.

**SAS SEALTRON® 3240 Woven Aluminum in Neoprene**

**Characteristics:** Shielding Characteristics of Woven Aluminum Screen Cloth, Pressure Sealing Of Neoprene.

**SAS SEALTRON® 3110 Expanded Monel in Silicone**

**Characteristics:** Shielding Characteristics of Expanded Monel, Pressure Sealing Of Silicone.

**SAS SEALTRON® 3210 Expanded Monel in Neoprene**

**Characteristics:** Shielding Characteristics of Expanded Monel, Pressure Sealing Of Neoprene.

**Methods Of Manufacture:**
- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding
- Injection Molding
- Liquid Injection Molding
- Extruding
- CNC Milling

**SEALTRON®** is a trademark of SAS Industries, Inc.
Conductive Tapes and Oriented Wires in Elastomers

The following is a partial listing of Conductive Tapes and Oriented Wires in Elastomers. These products all have excellent electrical conductivity. The Oriented Wire in Elastomers are suggested for use in gasket applications requiring high levels of attenuation along with a moisture seal. They are also great for commercial shielding due to their low relative cost to particle filled elastomers. These can be custom cut to any design.

Methods Of Manufacture:
- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding
- Injection Molding
- Liquid Injection Molding
- Extruding
- CNC Milling

Characteristics:
- Excellent electrical conductivity from the application substrate through the adhesive to the foil backing.
- Good Electrical and Heat Conductivity.
- Shielding Characteristics of Monel, Gasketing Characteristics of Silicone.
- Shielding Characteristics of Monel, Gasketing Characteristics of Silicone Sponge.
- Shielding Characteristics of Monel, Gasketing Characteristics of Fluorosilicone.
- Shielding Characteristics of Aluminum, Gasketing Characteristics of Silicone.
- Shielding Characteristics of Aluminum, Gasketing Characteristics of Silicone Sponge.

3M™ 1345
Characteristics: excellent electrical conductivity from the application substrate through the adhesive to the foil backing.

SAS SEALTRON® 2114
Oriented Monel in Silicone

SAS SEALTRON® 2210
Oriented Monel in Silicone Sponge

SAS SEALTRON® 2314
Oriented Monel in Fluorosilicone

SAS SEALTRON® 2124
Oriented Aluminum in Silicone

SAS SEALTRON® 2220
Oriented Aluminum in Silicone Sponge

3M™ is a trademark of the 3M™ Corporation
SEALTRON® is a trademark of SAS Industries, Inc.
SAS also converts from a variety of Papers and Plastics. Below is a partial listing. Through the use of Die Cutting, Water Jet Cutting, and CNC Milling we have the capabilities to make a vast array of both Paper and Plastic parts. The possibilities are limitless.

**Kapton**

**Characteristics:** excellent electrical insulator and meets UL 94V0 for flame retardance.

**Mylar**

**Characteristics:** good complementary combination of physical, thermal and optical properties.

**Nomex**

**Characteristics:** high-density offering high inherent dielectric strength, mechanical toughness, flexibility and resilience.

**Teflon**

**Characteristics:** excellent chemical performance in extreme temperatures.

**Melinex**

**Characteristics:** well balanced properties for use in a wide range of applications.

**G10/FR4 Glass Epoxy**

**Characteristics:** excellent strength, low water absorption, and good electrical insulating qualities in dry and humid conditions. Also flame retardant.

**Fishpaper**

**Characteristics:** good electrical-insulation properties and flexibility.

**Methods Of Manufacture:**

- Die Cutting
- Water Jet Cutting
- Compression Molding
- Injection Molding
- Extruding
- Transfer Molding
- CNC Milling
- Liquid Injection Molding
Pressure Sensitive Adhesives

SAS has the capability to laminate any PSA to any rubber, paper, or plastic product. Below is a list of the most commonly used PSA’s that we keep in stock. These are available on any product we sell. For Particle Filled Elastomers we recommend using 1 of the 2 Conductive PSA’s (9712 or 9719).

**3M™ 9817 (Value Grade Acrylic Transfer Tape)**

**Characteristics:** Excellent quick stick and adhesion to high and low energy surfaces.

**3M™ 9485 (High Performance Acrylic Transfer Tape)**

**Characteristics:** modified acrylic adhesive ideal for very high-bond strength to many surfaces. They have excellent chemical resistance and bold strength even at elevated temperatures.

**3M™ 467MP (High Performance Acrylic Transfer Tape)**

**Characteristics:** Clarity (virtually free of vapor inclusions that are commonly found in adhesives produced by the traditional solvent coating technique). Excellent high temperature performance as well as excellent shear strength (that minimizes edge lifting and slippage of parts). Excellent resistance to harsh environments; this adhesive can withstand splashes of organic solvents, weak acids and bases and salt water, cleaning solutions, germicidals, disinfectants, oils, etc. In addition, it performs well after exposure to humidity and hot/cold cycles.

**3M™ 9712 (Acrylic Electrically Conductive Transfer Tape)**

**Characteristics:** Electrically Conductive Acrylic PSA through all 3 axis (X, Y, and Z).

**3M™ 9719 (Silicone Electrically Conductive Transfer Tape)**

**Characteristics:** Electrically Conductive Silicone PSA through all 3 axis (X, Y, and Z).

**Methods Of Manufacture:**

- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding
- Injection Molding
- Liquid Injection Molding
- Extruding
- CNC Milling

3M™ is a trademark of the 3M™ Corporation
Fiber and Asbestos Alternate Materials

SAS also converts from many Fiber and Asbestos Alternate materials. Below is a partial listing of what we can custom cut to virtually any design you can imagine.

Garlock Blue-Gard®
3000

Characteristics: Unique blend of aramid fibers, fillers, and a NBR rubber binder provides improved torque retention and drastically lowered emissions levels.

Methods Of Manufacture:
- Die Cutting
- Water Jet Cutting
- Compression Molding
- Transfer Molding

Branded Vellumoid

Characteristics: Treated cellulose fiber material impregnated with a protein glue and glycerin binder.

Interface Solutions
CN705

Characteristics: Nitrile butadiene rubber binder for fluid resistance. Generally suitable for oil, gasoline and water services.

Interface Solutions
TS9003

Characteristics: Controlled-Swell alternative to high-swell compressed asbestos materials. Latent cure styrene binder on heat-resisting thermally stable fibers offers good sealing characteristics at low flange pressures.

Interface Solutions
TN9000

Characteristics: Fully Cured binder, highly compressed material with good tensile strength, low creep relaxation, excellent fuel and oil resistance.

Interface Solutions
CS-301

Characteristics: Dependable seal in water and high aniline point oil and in other service not involving aromatic fuels and certain solvents.

BLUE-GARD® is a trademark of the Garlock Company