



Manufacturers • Designers • Distributors

A DETAILED GUIDE TO

MATERIAL CONVERSION

Solutions for all industries



PRECISION MANUFACTURING

Tailored to your exact needs



ADVANCED TECHNOLOGY

State-of-the-art conversion
equipment



PREMIUM QUALITY

Consistent quality to ISO
9001 standards



RESPONSIVE SERVICE

Transparent communication
and service you can depend on



CONSTRUCTION



RAIL



MARINE



INDUSTRIAL



DEFENCE

EXPERTS IN RUBBER

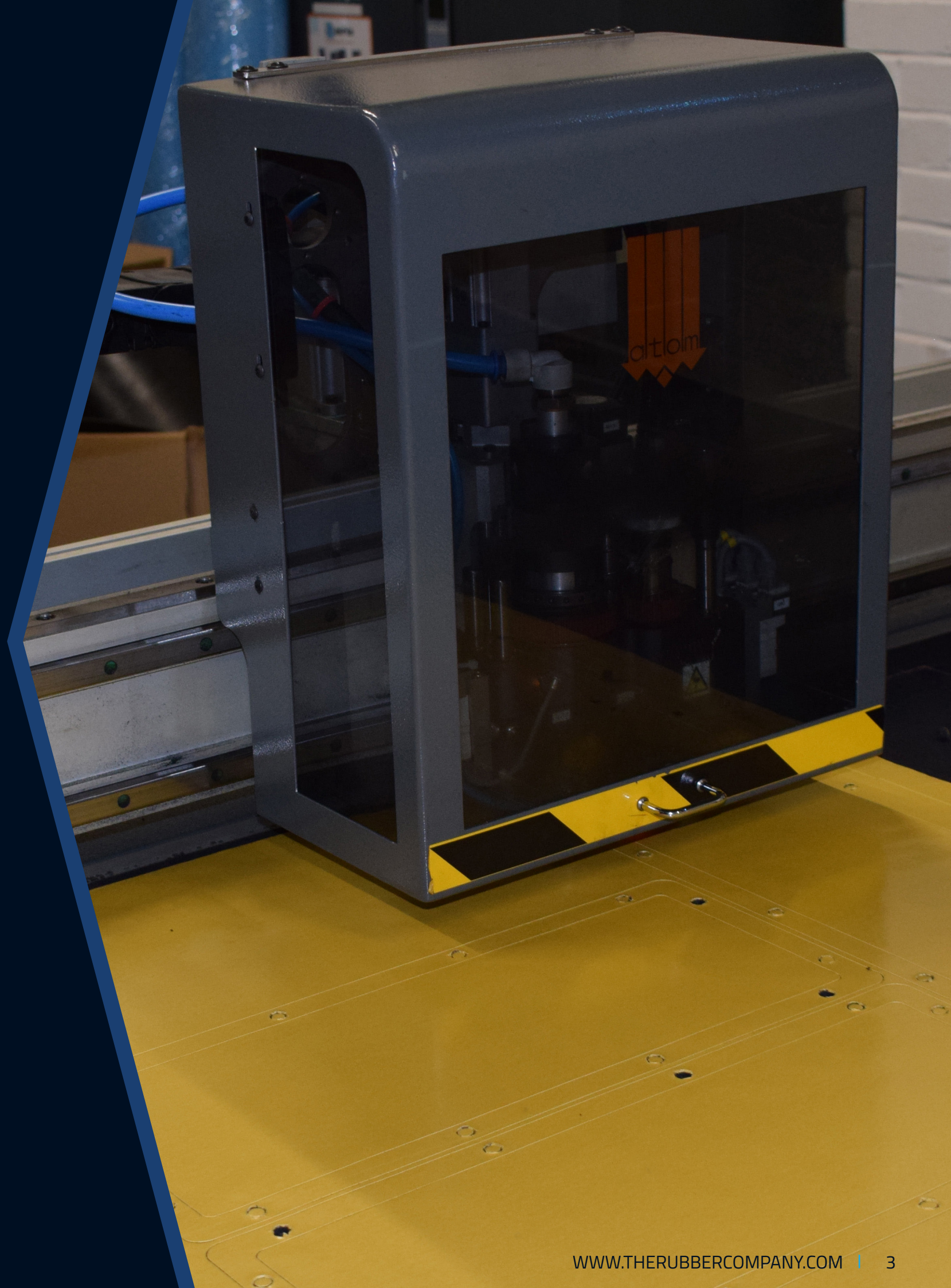
MATERIAL CONVERSION PRECISION ENGINEERED

We specialise in converting rubbers, plastics, foams and other gasket materials into high-quality parts tailored to your exact requirements. We have an extensive range of materials and compounds readily available, which we can provide technical advice for you to select the right material for your part.

WHY CHOOSE THE RUBBER COMPANY

- 100+ years of combined experience
- 1000s of products supplied
- Delivered to 75+ countries
- 1-off prototypes to large production volumes
- Quotation typically within 24 hours
- Fast production turnaround
- Technical material selection and design support
- ISO accredited

CERTIFIED QUALITY YOU CAN TRUST



PRECISION CONVERSION TAILORED TO YOU

We use advanced machinery and proven techniques to convert rubber, foams and composites into high-performance components to your exact specification.



PRECISION

State-of-the-art equipment for accurate, repeatable results.



VERSATILITY

A wide range of techniques and materials to suit every application.

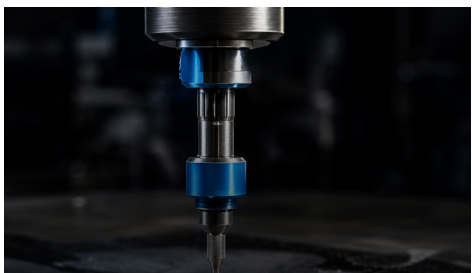


BESPOKE SOLUTIONS

From single prototypes to high-volume production.



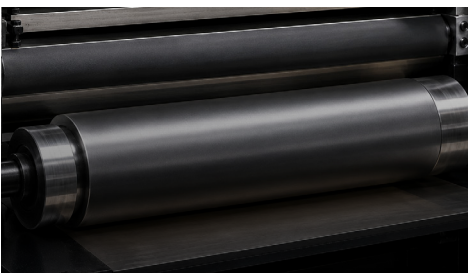
 **CNC KNIFE CUTTING**
Intricate shapes and profiles with speed and accuracy.



 **WATERJET CUTTING**
Ultra-high pressure cutting with no heat affected zones.



 **BANDSAW & BAND KNIFE**
Clean cuts for sheets and thicker materials.



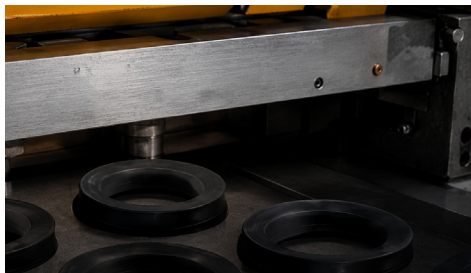
 **LAMINATION**
Bonding of rubber for enhanced performance.



 **LASER CUTTING & ENGRAVING**
Precision cutting and engraving with clean sealed edges.



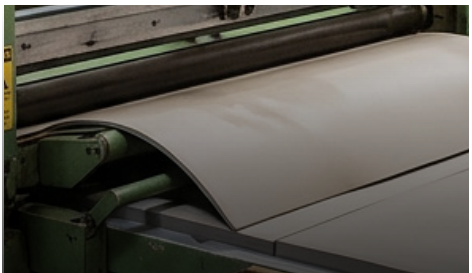
 **GLUING & WELDING**
Strong, reliable bonds for complex shapes and assemblies.



 **DIE CUTTING**
High volume, consistent cut-outs with tight tolerances



 **SLITTING**
Precision slitting of rolls to exact widths.



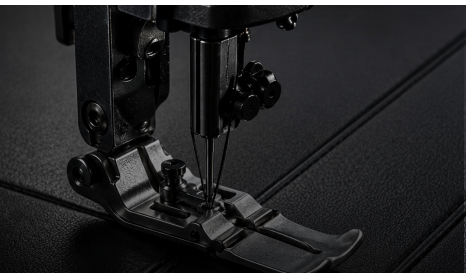
 **SPLITTING**
Horizontal slicing of large blocks, sheets, or rolls.



 **BORING**
Accurately cut holes in rubber, sponge and foam.



 **CURING & VULCANISATION**
Process of curing elastomers for improved elasticity.



 **SEWING**
Manufacture of covers, bellows and other fabricated products.

GASKET MATERIALS

EXTENSIVE RANGE OF GASKET MATERIALS

We provide a comprehensive range of rubber gasket materials from general-purpose to specialist grades, ensuring we meet diverse industry requirements.

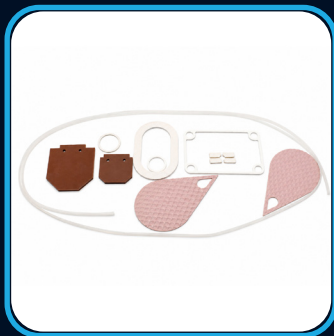
- BISCO®
- Butyl Rubber
- Carbon Fibre Laminates
- Coated Fabrics
- Commercial Rubber
- Conductive Gaskets
- Conveyor Belting
- Engineering Plastics
- EPDM Rubber
- Expanded Rubbers
- FKM (Viton)
- Graphite
- HNBR
- Hypalon
- Industrial Felt
- Klinger
- Latex
- Natural
- Neoprene
- Nitrile Rubber
- Non-Asbestos
- Novus Materials
- Polyurethane
- PTFE
- PVC
- Reinforced Rubbers
- Rubber Bonded Cork
- Rubber Bonded Metal
- SBR
- Silicone Rubber
- Sponge/Foam
- TICO® Anti-vibration

GASKET TYPES

BESPOKE DESIGNS TAILORED TO YOUR NEEDS

Bespoke manufactured parts to suit your requirement; from simple washers to complex shapes and micro size seals.

Send us your drawing today to sales@therubbercompany.com



MEDICAL GRADE
PARTS



EPDM SPONGE



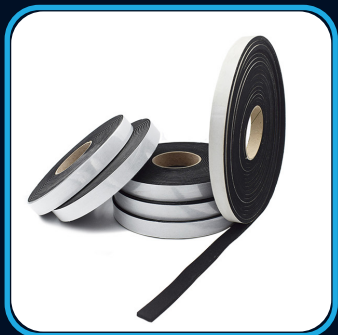
BESPOKE FOAM
DESIGNS



METAL DETECTABLE
SILICONE



VITON RUBBER



SOLID & SPONGE
STRIPS



BRITISH STANDARDS

- BS 2751 Nitrile
- BS 2752 Neoprene
- BS 1154 Natural
- BS 1337-3 Bridge Bearing



FIRE RATED MATERIALS

- EN 45545-2 HL3
- UL 94-V0
- EN 13501-1



FOOD & DRINKING WATER

- FDA 21 CFR177.2600
- EU 1935/2004
- WRAS APPROVED



From prototype to production, we deliver gaskets that meet the highest standards of **quality, consistency and performance.**

PRODUCT EXAMPLES



RUBBASTAR FABRICATED PANELS FOR SHOOTING RANGE



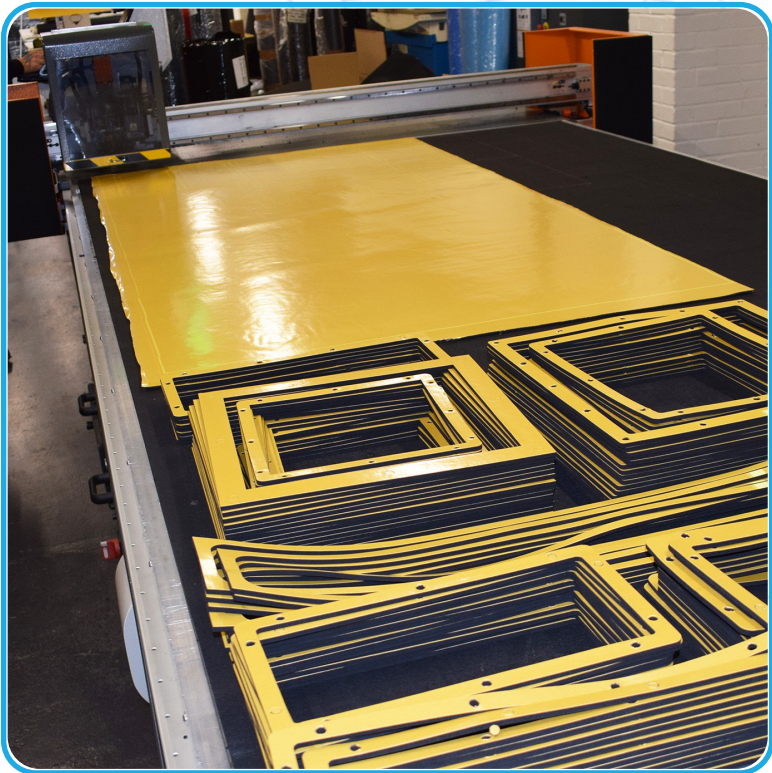
SHOTBLAST RUBBER PART



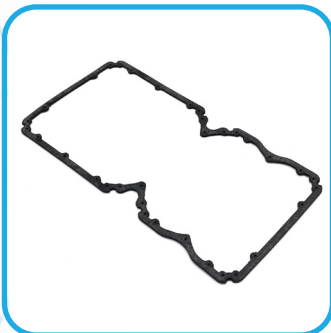
POLYETHYLENE FOAM INSERT



FUEL RESISTANT LID SEALS



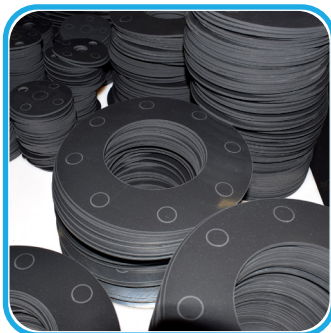
RAILWAY GASKETS TO EN 45545-2 HL3



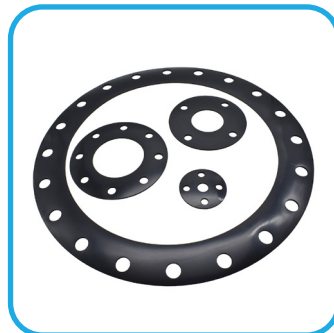
CONTAINER SEAL



RUBBER BONDED TO METAL MOUNT



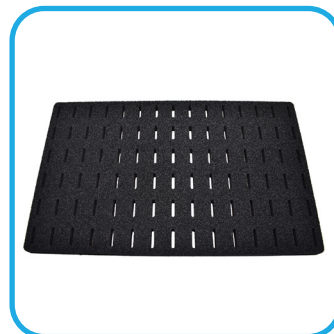
PEROXIDE CURED EPDM GASKETS



WHITE SILICONE PAD WITH HOLES



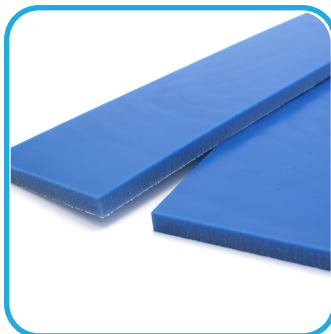
NEOPRENE GASKETS



VACUUM SUCTION PAD



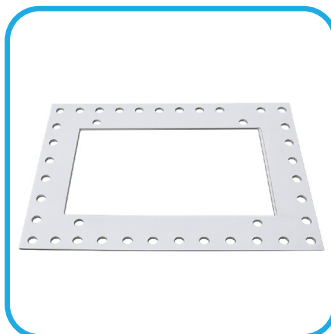
TICO® ANTI-VIBRATION PADS



POLYURETHANE PADS FOR THE MILLENNIUM BRIDGE



FOOD GRADE STRAPS



PTFE GASKET FOR NUCLEAR STATION



50MM THICK MARINE WEAR PADS

ENGINEERED SOLUTIONS TRUSTED ACROSS INDUSTRIES

Our rubber conversion expertise and advanced manufacturing capabilities allow us to deliver high-performance components that meet the demanding requirements of every industry we serve.



TAILORED SOLUTIONS
Designed around your application.



UNCOMPROMISING QUALITY
Consistent performance you can rely on.



FAST TURNAROUND
From prototype to production.



GLOBAL SUPPLY
Supporting customers worldwide.



CONSTRUCTION

Durable rubber components for building infrastructure and heavy machinery.

- ✓ Vibration isolation
- ✓ Sealing and waterproofing
- ✓ Wear protection



RAIL

High-performance solutions engineered for safety, comfort and reliability.

- ✓ Cable entry systems
- ✓ Door and window seals
- ✓ Anti-vibration components



MARINE

Reliable rubber components built to withstand harsh marine environments.

- ✓ Fender systems
- ✓ Gaskets and seals
- ✓ Deck and hatch seals



OIL & GAS

Resilient solutions for exploration, processing and transportation.

- ✓ Chemical resistance
- ✓ Pressure seals
- ✓ Flame retardant options



DEFENCE

Engineered for performance in the most demanding conditions.

- ✓ Ballistic protection
- ✓ EMI shielding
- ✓ Specialist seal solutions



ENERGY

Supporting renewable and traditional energy infrastructure.

- ✓ Vibration damping
- ✓ Cable management
- ✓ Sealing solutions

One partner. Unlimited applications.

From concept to completion, we deliver rubber components that perform where it matters most.



TECHNICAL EXPERTISE

Decades of experience and materials knowledge.



ADVANCED MANUFACTURING

State-of-the-art machinery for precision conversion.



QUALITY ASSURED

ISO 9001 accredited quality management.

MATERIAL PROPERTIES GUIDE

Our materials are carefully selected to deliver the right balance of performance, durability and reliability for every application. Use this guide to compare key properties and choose with confidence.

	Natural	SBR	Butyl	Nitrile	Neoprene	EPDM	Silicone	Viton	Polyurethane	Hypalon	Epichlorohydrin	Fluorosilicone
Hardness (Shore A)	30° - 90°	40° - 90°	40° - 70°	40° - 95°	40° - 95°	40° - 90°	30° - 85°	55° - 95°	35° - 99°	40° - 95°	40° - 95°	40° - 80°
Tear Resistance	Very Good	Fair	Good	Fair	Good	Fair	Poor	Fair	Excellent	Excellent	Fair	Fair
Abrasion Resistance	Excellent	Very Good	Good	Excellent	Good	Good	Poor	Good	Outstanding	Excellent	Good	Good
Compression Set	Good	Good	Fair	Good	Fair	Good	Fair	Fair	Fair	Fair	Fair	Fair
Rebound – Cold	Excellent	Good	Poor	Good	Very Good	Very Good	Excellent	Fair	Good	Good	Poor	Excellent
Rebound – Hot	Excellent	Good	Very Good	Good	Very Good	Very Good	Excellent	Good	Good	Good	Poor	Good
Dielectric Strength	Excellent	Excellent	Excellent	Poor	Good	Excellent	Good	Good	Excellent	Excellent	Good	Good
Electrical Insulation	Very Good	Very Good	Very Good	Poor	Fair	Excellent	Excellent	Fair	Fair	Good	Fair	Excellent
Gas Permeability	Fairly Low	Fairly Low	Very Low	Low	Low	Fairly Low	Fairly Low	Very Low	Fairly Low	Fairly Low	Fairly Low	Fairly Low
Adhesion Properties	Good	Good	Good	Good	Good	Poor	Fair	Good	Fair	Fair	Fair	Fair
Water Absorption	Very Good	Very Good	Very Good	Good	Good	Very Good	Excellent	Very Good	Good	Very Good	Good	Good
Oxidation	Good	Fair	Excellent	Good	Very Good	Excellent	Excellent	Outstanding	Excellent	Excellent	Good	Excellent
Ozone Resistance	Poor	Poor	Excellent	Fair	Very Good	Outstanding	Excellent	Outstanding	Excellent	Outstanding	Very Good	Excellent
Sunlight Ageing	Poor	Poor	Very Good	Poor	Very Good	Outstanding	Excellent	Outstanding	Good	Outstanding	Good	Very Good
Heat Ageing	+85/-40	+90/-40	+120/-20	+115/-20	+95/-20	+145/-40	+305/-100	+205/-20	+80/-40	+120/-20	+120/-40	+200/-100
Heat Resistance	Good	Fair	Very Good	Good	Very Good	Excellent	Outstanding	Outstanding	Good	Excellent	Very Good	Good
Cold Resistance	Excellent	Very Good	Good	Fair	Good	Excellent	Outstanding	Good	Excellent	Good	Fair	Excellent

The above figures are typical values and should be used as a guide only.
For full technical data or application advice, please contact our team.

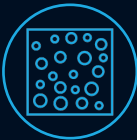
MATERIAL SAMPLE CARD

Choosing the right material for the job is important. Our material sample card gives you key technical information like density, operating temperatures and sizes together with a swatch helping you to choose the right solution for your application.



24 MATERIALS

A comprehensive range of rubber, sponge and foam materials to suit a wide variety of applications.



DENSITY DATA

Detailed density information to help you match material requirements.



TEMPERATURE RATINGS

Operating temperature ranges to ensure reliable performance in extreme environments.



HARDNESS OPTIONS

A range of hardness levels to provide the right balance of flexibility, strength and durability.



FREE MATERIAL SAMPLE CARD

Request your free sample card today and compare 24 of our most popular materials.

THE RIGHT MATERIALS FOR THE RIGHT APPLICATION

We supply and convert a comprehensive range of rubber, sponge, and foam materials. Below are some of our most popular options.



TRC01

- Closed cell EPDM
- 75 - 105 kg/m³
- Good flexibility and tensile strength
- -30°C to +80°C



TRC02

- Closed cell EPDM
- 120 - 160 kg/m³
- -30°C to +80°C

EPDM SPONGE

General sealing and cushioning applications. Good resistance to ozone, UV and weathering.



TRC03

- Closed cell EPDM
- 180 - 200 kg/m³
- -30°C to +100°C



TRC04

- Closed cell EPDM/ natural rubber
- 270 - 330 kg/m³
- -30°C to +100°C

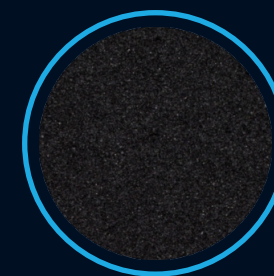


TRC05

- Open cell EPDM
- 65 - 85 kg/m³
- Good recovery without deformation
- -20°C to +70°C

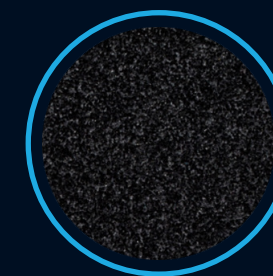
NEOPRENE SPONGE

General sealing and cushioning applications. Good resistance to oils and chemicals.



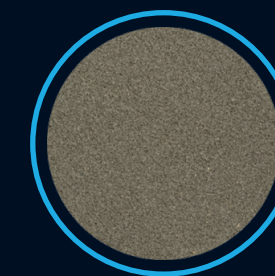
TRC06

- Closed cell neoprene
- 140 - 190 kg/m³
- Air and watertight
- -40°C to +80°C



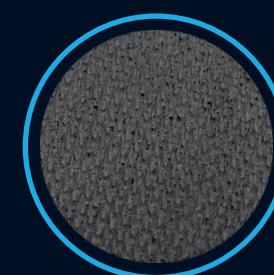
TRC07

- Firm grade neoprene
- 150 - 200 kg/m³
- -40°C to +80°C



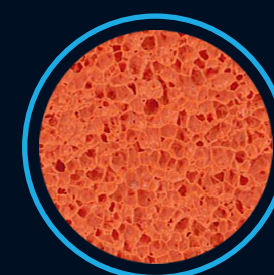
TRC08

- Closed cell neoprene
- 130 - 170 kg/m³
- -40°C to +80°C



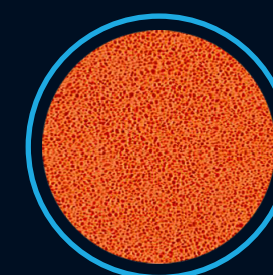
TRC09

- Open cell industrial
- 380 kg/m³
- Cloth finish with chalk coat
- -40°C to +80°C



TRC10

- Open cell natural rubber
- 200 kg/m³
- -40°C to +80°C



TRC11

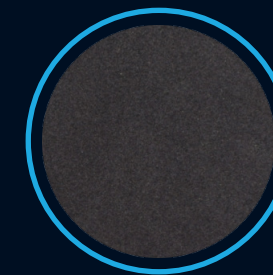
- Open cell natural rubber
- 600 kg/m³
- -40°C to +80°C

NATURAL RUBBER SPONGE

Excellent abrasion resistance, combined with high flexibility and compression recovery.

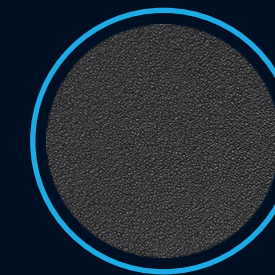
FOAM

Wide selection of foam including EVA, PVC/ nitrile, polyurethane, polyethylene and Plastazote to specialist foams like blunt trauma foam.



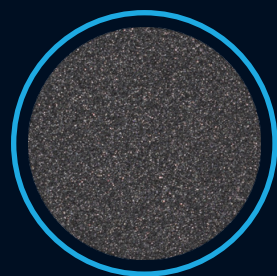
TRC12

- EVA foam
- 25 - 160 kg/m³
- Good tensile strength
- -30°C to +80°C

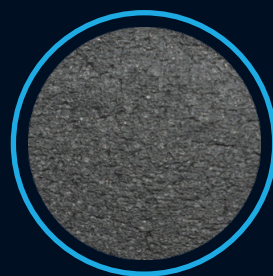


TRC13A

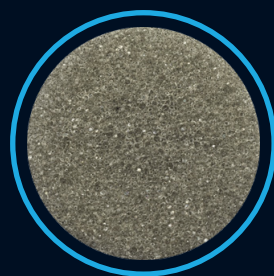
- Polyethylene
- 75 - 105 kg/m³
- -30°C to +80°C

**TRC13B**

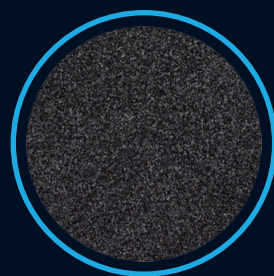
- Plastazote®
- 15 - 115 kg/m³
- -70°C to +105°C

**TRC14**

- PVC/nitrile foam
- 75 - 95 kg/m³
- -40°C to +115°C

**TRC15**

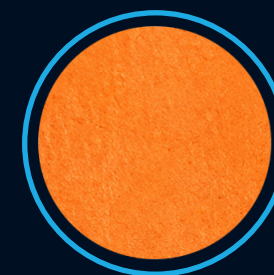
- Open cell polyurethane
- 22 - 29 kg/m³
- -40°C to +100°C

**TRC18**

- Vinyl/nitrile
- 190 - 210 kg/m³
- Blunt trauma foam
- -30°C to +60°C

NOVUS MATERIALS

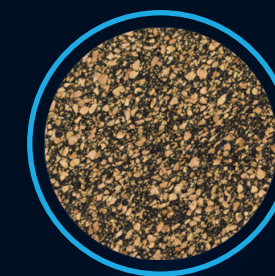
BS7531 conforming materials known for sealing at extreme temperatures and at a range of pressure levels.

**TRC19**

- Novus
- 1.57 - 2.00 g/cc
- Up to 450°C

CORK & TICO®

Anti vibration cork and TICO® products. Natural and synthetic grades or bonded with nitrile or neoprene rubber available.

**TRC24**

- Cork - natural or synthetic
- Anti-vibration

**TRC16**

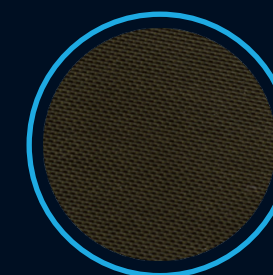
- Silicone sponge
- 160 - 570 kg/m³
- -60°C to +200°C

**TRC17**

- Solid silicone
- Shore A 30° - 80°
- -60°C to +200°C

SILICONE & BISCO®

Special grades available. FDA, metal detectable, thermally conductive, fluorosilicone, fire retardant.

**TRC25**

- E6754
- NATO military tent covers
- Impermeable to gas for 24 hours

RUBBER COATED FABRICS

Bespoke manufactured materials for applications including defence, chemical protection, fire protection, tank lining and welding curtains.

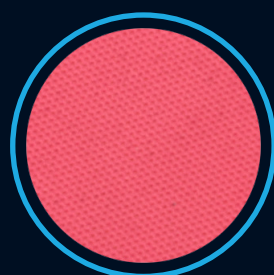
SOLID RUBBER

Extensive range of solid rubber materials in every polymer:

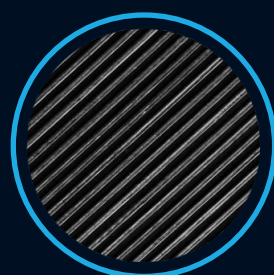
- Neoprene (CR)
- Nitrile (NBR)
- Natural (NR)
- Ethylene Propylene (EPDM)
- Butyl (IIR)
- Styrene Butadiene (SBR)
- Hypalon (CSM)
- Fluoroelastomer (FKM)

**TRC20**

- Commercial
- Shore A 70°

**TRC22**

- Rubbstar - red abrasion
- Shore A 38°

**TRC23**

- Rubber matting
- Fine ribbed grade

ACCURATE & CONSISTENT QUALITY

We use quality precision measuring equipment and strict quality control procedures to ensure you get the right product first time, every time.



PRECISION EQUIPMENT
State-of-the-art measuring tools for reliable and accurate results.



QUALITY ASSURED
Every product batch is checked to ensure it meets all the required standards and tolerances.



TRACEABILITY
Full batch traceability and inspection reports with every order.



CERTIFICATION
Certificate of conformity supplied with every order. First article inspection available.



Manufacturers • Designers • Distributors

Get in touch with our team today to discuss your requirements



+44 (0) 1794 513 184



sales@therubbercompany.com



www.therubbercompany.com



TRC House,
Romsey Industrial Estate,
Greatbridge Road, Romsey, Hampshire,
SO51 0HR, UK



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