



FAWKES
THERMAL MANUFACTURING &
SUPPLIES

**Our manufacturing
sector thrives
on being a proudly
South African
brand ”**

CONTENTS

Company Profile _____	3
Product Range _____	4,5
Expansion Joints _____	6
Stitched Bellows & Loading Chutes _____	7
Metal Bellows/Compensators _____	8
Rubber Bellows/Compensators _____	9
Seals & Packings _____	10
Thermal Insulation Jackets _____	11
Industrial Gaskets _____	12
Fibre Textiles _____	13
General Thermal Insulation _____	14,15

COMPANY PROFILE

Fawkes Thermal Manufacturing (Pty) LTD was established in 2020, after the founding team noticed that there was a large gap in the thermal insulation market. Namely, an affordable supplier with superior quality products. This market lacked a supplier to supply a product that is both quality thermal insulation and affordable.

Our organisation was built on the vision that Fawkes Thermal Manufacturing (Pty) LTD would not only grow the Thermal Insulation Market, but also to ensure that our customers are offered the best product to suit their requirements and can source it from the fairest and most cost-effective supplier without compromising customer's quality and service.

Our manufacturing sector thrives on being a proudly South African brand. All our Expansion Joints, Thermal Insulation Jackets, Fire Blankets, High Temperature Sealing and Boiler Joint Gaskets are made in South Africa.

QUALITY THERMAL INSULATION

The Thermal Insulation market is a very vast industry. We are able to assist in every sector. From providing Loading Chutes to the cement industry, to providing roof insulation to the building industries and supplying refractory cements to line furnaces, we endeavour to find the solution to any Thermal Insulation Problem.

Below are industries we are currently competitive in:

- Marine
- Smelters
- Cement Plants
- Power Generation
- Pulp & Paper Plants
- Refineries
- Boiler Manufacturers
- Fan Manufacturers
- Steel Mills
- Agricultural
- Petrochemical

PRODUCT RANGE

Below is a list of all the products supplied and manufactured by Fawkes Thermal Manufacturing & Supplies:

- Expansion Joints
- Rubber Expansion Joints
- LFP Expansion Joints
- Metal Bellows
- Rubber (EPDM) Bellows
- Stitched Bellows
- Boiler Joints
- Loading Chutes
- Seals & Packings
 - Standard Square/ Round/ Rectangular
 - Tadpole Seals
 - Rotary Kiln Seals
 - Electrode Seals
 - Mechanical Seals
- Thermal Insulation Jacket
- Industrial Gaskets
 - Ring
 - Full Face
 - Spiral Wound
- Ceramic Fibre Products
 - Blankets
 - Board
 - Cloth
 - Rope
 - Tape
 - Paper
- Glass Textile Products
 - Tape
 - Cloth
 - Sleeving (Silicone Coated if Required)
 - Rope
- Water Pipe Insulation
 - Hot or Cold—Polyurethane or Copper Piping
- Preformed Fibreglass Pipes (Cladding if required)
 - Fibreglass Pipe Sections
 - Rockwool Pipe Sections

From providing Loading Chutes to the cement industry, to providing roof insulation to the building industries, we endeavor to find the solution to any Thermal Insulation Problem

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Due to our expanding product range Fawkes Thermal Manufacturing reserves the right to alter or change this brochure or any of the information herein without prior notice.

- Fibreglass Insulation
 - Insulation Matt
 - Insulation Felt
 - Insulation Board
- Welding/Fire Blankets
- Tarpaulins
- Geysers Blankets
- Sheeting
 - EPDM Rubber
 - Neoprene (Red & Black)
 - Rubber Insertion
 - General Purpose Rubber
 - PTFE
 - Viton
 - Gaskets (Non-Asbestos)
 - Millboard
 - Cork (Normal & Transformer Grade)
 - Vellumoid/Flexoid
- Refractory Cement
- Other general thermal insulation products



EXPANSION JOINTS

Our Expansion Joints are manufactured by an exceptionally trained technical team. With a manufacturing team that has over 23 years of technical experience, we are able to manufacture any Expansion Joint to suit practically any application.

Our Expansion Joints are manufactured to suit each of our customers' individual needs. From materials such as Glass and Ceramic Textiles and high temperature Silicones to EPDM, we use only the best quality materials to ensure the best quality products.

We manufacture 3 Types of Expansion Joints, namely:

Fabric-Type Expansion Joints

Elastomeric-Type Expansion Joints

LFP-Type Expansion Joints

Our Joints are able to withstand temperatures from -60°C to 1200°C . We use only the highest quality materials from all over the world to ensure that our Joints are manufactured to the best quality products. We have an Joints for any Temperature and Application. If you are unsure of what material you require your Joints to be, contact us for an Joints template and we will advise you on the best Joints for your needs.



Send our technical team an email:
sales@fawkesthermal.co.za

EPDM Expansion Joint



Red Round Silicone Expansion Joint



EPDM Rectangular Expansion Joint



EPDM Moulded Expansion Joint



STITCHED BELLOWS & LOADING CHUTES

Fawkes Thermal Manufacturing provides a wide range of tailor-made stitched bellows suitable for various applications. Our stitched bellows can be fitted with zips, Hook and Loop, Velcro, and many other different types of fastening.

Materials for our stitched Bellows include:

EPDM
Silicone Coated Cloth
Aramid Textiles
Heavy Duty PVC
Kevlar

With a knowledge pool of over 23 years technical experience in the manufacture of Loading Chutes, our manufacturing team are able to supply the best quality spring, fixed and cone type Loading Chutes along with their accessories.

Our technical staff are able to supply different kinds of stitched bellows and loading chutes for various applications.

Not sure on what product you need? Contact our sales team for a template for your bellow or loading chute.



Send our technical team an email:
sales@fawkesthermal.co.za

Heavy Duty PVC
Bellow



Silicone Stitched
Bellow



Loading Chutes



METAL BELLOWS/COMPENSATORS

Our bellows have been used all over Southern Africa. From the Mining sector to refineries, we are able to supply any kind of metal bellow into almost any industry. We supply a wide range of metal bellows ranging from standard axial type bellows to custom made products.

Our Metal Bellows have a temperature range of 200°C to 800°C and have a pressure rating of up to 50 Bar.

Our Metal Bellows are available in Mild Steel or Stainless Steel. The bellows come with a range of accessories, such as Tie-Rods, and manufactured flanges to suit various standards.

Medium – Gas, Liquids & Pulps

Movement – Axial, Lateral And Radial



Need assistance measuring your Metal Bellows and Compensators? Contact our sales team for your Metallic Bellow and Compensator Questionnaire and Sizing template.

Double Hinged Metal Bellow



Metallatic Bellow



RUBBER BELLOWS/COMPENSATORS

Our Rubber Bellows are supplied from ND 1.1/4" (32mm) up to ND 80" (200mm), being recommended to operate up to 225 PSIG (16 Kgf/cm) and 250°F (120°C), according to the specific model.

Features:

Compensation for displacements with small installation lengths and low spring forces.

Corrosion resistant.

High absorption of mechanical and sonorous vibration.

APPLICATIONS:

Air-condition system.

Pumps, air compressors, blowers, etc.

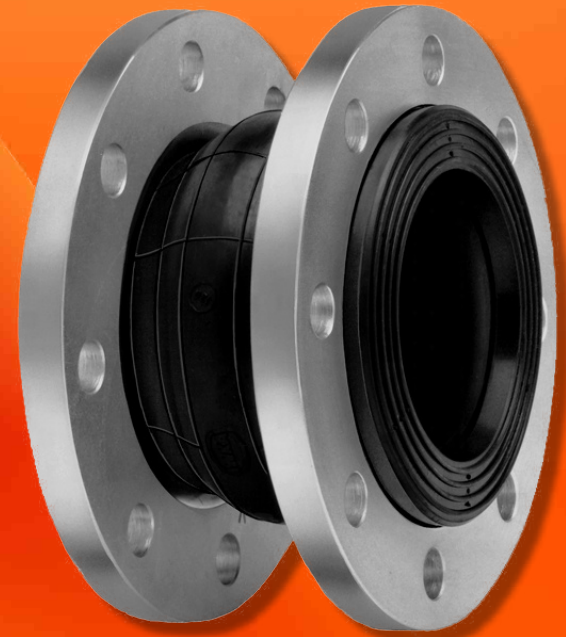
Industrial piping systems.

Marine piping systems.

Sanitary systems.

Any piping system where it is necessary to compensate thermal displacements.

Rubber Bellow



SEALS & PACKINGS

Our Seals and Packings range consist of standard sized packing from various brands, as well as our own custom-made packing for non-standard sizing and specialized seals for high temperature applications.

Our manufactured high temperature seals are specialized and custom-made to specifically suit our customer's applications.

At Fawkes Thermal Manufacturing, we specialize in:

Tadpole Seals
Electrode Seals
Mechanical Seals

Rotary Kiln Seals
General High Temperature Seals

Our standard Packings and Ropes are available in:

Ceramic Fibre
Glass Fibre
PTFE
Electrode Seals
Mechanical Seals

Graphite
Non-Asbestos
Rotary Kiln Seals
General High Temperature Seals



For our detailed standard Packing brochure contact our sales department: sales@fawkesthermal.co.za

Double Hinged Metal Bellow



Tadpole seal



Gland Packing



THERMAL INSULATION JACKETS

At Fawkes Thermal Manufacturing, we believe in supplying only the best quality Thermal Insulation and our Removable Thermal Insulation Covers are exactly that. Our Thermal Insulation jackets are designed to reduce heat loss from ductwork, valves, flanges, boilers heat, exchangers, pumps, and other fittings.

Our Removable Thermal Insulation jackets are designed to individually suit each customer's specification. Manufactured with only the best quality materials, our Jackets are able to withstand temperatures of up to 550°C!

Our experienced manufacturing team have a collective knowledge pool of over 40 years in Thermal Insulation manufacturing, there is not a Thermal Insulation Jacket design we have not seen. Our Thermal Insulation Jackets have been used in many applications, such as Turbo and Exhaust covers, and have been tried and tested by almost every industry.

Insulation Jacket



Insulation Jacket



Thermal Insulation Jacket



INDUSTRIAL GASKETS

We supply a wide range of gaskets available in many materials. Our industrial gaskets are manufactured from the best quality materials. Sourced both locally and internationally, we constantly assess these materials to ensure our customers receive the best products for their application.

Our gaskets are available in:

Ring Gaskets
Spiral Wound Gaskets

Full Face Gaskets
Gasket Sheeting

We supply all types of industrial gaskets and gasket sheeting, including:

PTFE	Expanded PTFE
Non-Asbestos (General Purpose)	Economy
EPDM	Graphite
Hypalon	Viton
Ceramic & Glass Textiles	Rubber Insertion
Neoprene (Red or Black Grade)	Cork (Transformer and Industrial)
Vellumoid/Flexoid	Copper

Gaskets



Neoprene Gasket Sheeting



Economy Gasket



FIBRE TEXTILES

CERAMIC FIBRE TEXTILES

Replacing Asbestos products, Ceramic Fibre Textiles are a high-quality insulation that has been used successfully for many years.

Our Ceramic Products are designed with a glass reinforcement to withstand temperatures of up to 650°C. For higher temperature applications we have wire-reinforced ceramic products to withstand temperatures of 1260°C.

Our Ceramic Products have a low thermal conductivity and excellent chemical stability and compressive strength.

Our Ceramic Textile range consists of:

- Webbing Tape
- Rope
- Blanket
- Cloth
- Paper
- Packing
- Board

GLASS FIBRE TEXTILES

At Fawkes Thermal Manufacturing, we supply a wide range of Glass Textiles ranging from the cloth to webbing tapes. We supply our products in non-standard as well as standard sizing.

In addition to standard sizes, we offer our customers sizes according to their specifications.

Our Glass textiles are available in E-Glass and C-glass and are able to withstand temperatures of up to 550°C.

Data sheets are available for each of our glass fibre products.

Our Glass Textile range consists of:

- Tape
- Cloth
- Sleaving
- Rope/Yarn
- Glass Felt

Ceramic Textile Products



Glass Textile Products



GENERAL THERMAL INSULATION

With the thermal insulation market being as vast as it is, it is difficult to sum up all our products into one brochure. With the knowledge and experience that the team at Fawkes Thermal Manufacturing has acquired we are called to solve many different Thermal Insulation problems.

With materials ranging from temperature specification of -60°C to 1260°C , we are able to assist with practically any Thermal Insulation application.

Other Thermal Insulation Products we supply:

BOILER JOINTS:

At Fawkes Thermal Manufacturing we manufacture a large range of Boiler Joints, both standard and custom-made. Most Boiler Joints are manufactured to 6mm thickness, but we are able to manufacture them to the customer's specification. Our Boiler Joints are able to with-stand temperatures of up to 250°C .

FLANGE COVERS/SPRAY SHIELDS:

Our spray covers are made with a high spray resistance and are chemically inert. These spray covers are easy to install, easy to remove and are reusable. Our LFP range is UV stabilized but we are also able to supply our Spray Shields in PTFE and other materials.

PIPE INSULATION:

We have a wide variety of pipe insulation and sections available for both indoor and outdoor applications. Our pipe insulation is used for both thermal insulation as well as acoustical insulation and is able to withstand temperatures of up to 660°C .

Need insulation for an outdoor application? We can provide galvanized cladding for all our pipe sections.



Need help measuring your Boiler Joint? Request a size template from our technical department: sales@fawkesthermal.co.za

Boiler Joints



Flange Cover



Pipe Insulation



GENERAL THERMAL INSULATION

FIBRE GLASS INSULATION

Designed for thermal and acoustical applications, our fibre glass insulation products are only the best quality materials are manufactured using the highest quality materials.

Our product range consists of:

- Insulation matts and boards
- Insulation felt
- Wire back mattress

WELDING BLANKETS

We pride ourselves in providing our customers with only the best quality products and our welding blankets are no exception. Our welding blankets are heat resistant and are made to our customer's specification. The welding blankets are made from an E-Glass Cloth and are able to withstand temperatures of up to 550°C.

THINKPINK AND SISALATION ROOF INSULATION

Mainly used in ceilings, the ThinkPink and Sisalation roof insulation are used to reduce the energy required to maintain a comfortable living environment. Sisalation and ThinkPink are available for both industrial and residential use.

Our roof insulation is also available in ThinkGreen environmentally friendly products

SILICONE EXTRUSIONS

Our silicone rubber extrusions are made to our customer's specification. We supply all kinds of seals for various applications including oven sealing, dairy sealing and various door and window sealing.

Wireback Mattress



ThinkPink Aerolite Roof Insulation



Welding Blanket





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