



# TELAWERKS

## ENGINEERING FABRIC WORKS

**TELA-SHIELD** ( FLANGE-VALVE PROTECTOR )

**TELA-HEAT-SHIELD** ( FLANGE-VALVE PROTECTORS & SPRAY SHIELDS )

**TELA-GEO** ( UNDER-WATER FLANGE-VALVE PROTECTOR )

**TELA-VISUAL** ( TRANSPARENT PIPE COUPLING | TUBE | HOSE | SLEEVE )

**TELA-JOINT** ( FABRIC EXPANSION JOINT )

**TAILOR-MADE FABRIC WORKS**

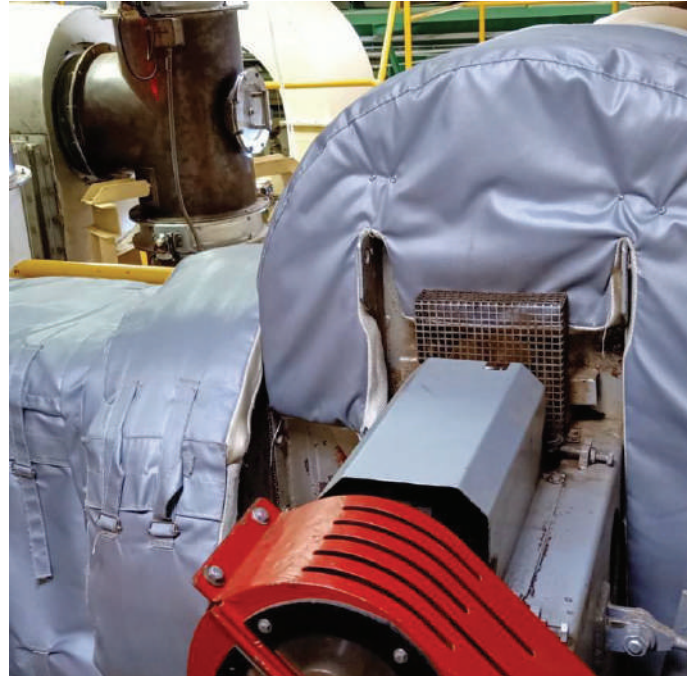


Even solid equipments seem to be more robust than flexi-equipment, nevertheless, in vibrating area, offset connectors, clear monitoring/inspecting required; Telawerk (Engineering fabric works) involves the application of scientific and technical principles to design, produce, fabricate fabric/textiles with specific properties, functionalities, and performance characteristics.

This process goes beyond traditional textile production by integrating engineering principles to enhance the overall capabilities of fabrics. Telawerk often includes considerations such as material selection, structural design, and the incorporation of advanced technologies to achieve specific needs and applications..

## FLANGE-VALVE PROTECTOR

### TELA-SHIELD



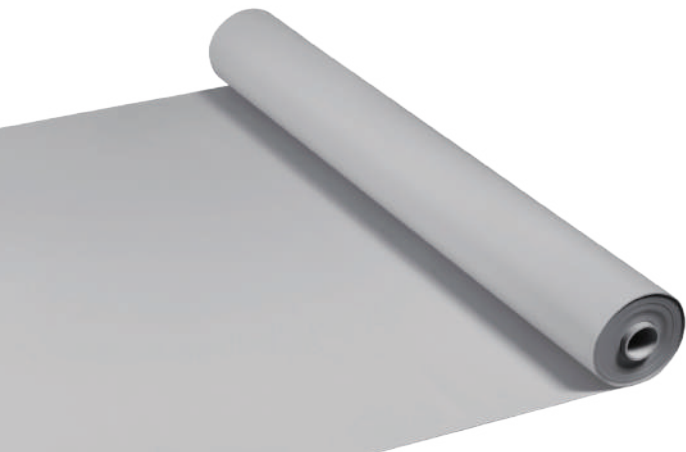
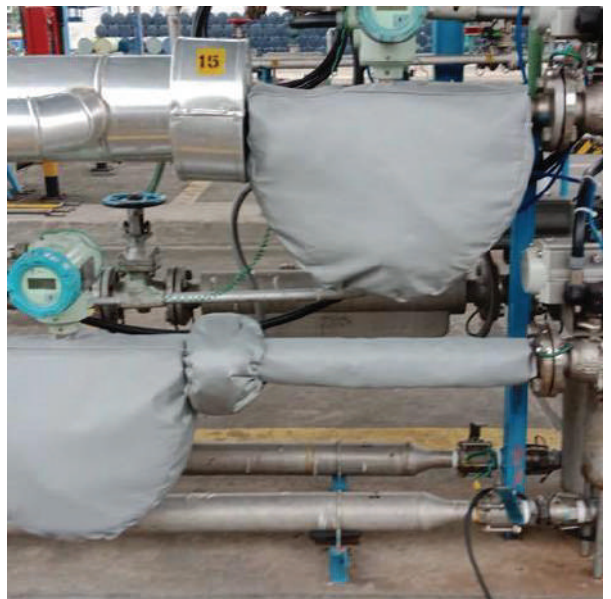
### TELA-SHIELD

Unleashing the Power of PTFE & ETFE, LDPE & HDPE, they are known for their exceptional chemical resistance. TELA-shield made of PTFE & ETFE, LDPE & HDPE can withstand exposure to a wide range of corrosive chemicals, acids, and bases, making them suitable for use in industries dealing with aggressive substances: chemical processing, petrochemical industries, power generation and pharmaceutical manufacturing, "Your go-to solution"

PTFE is fire resistance whilst ETFE has low flammability.

#### Applications :

- Chemical Processing
- Petrochemical Industry
- Powder conveying system
- Pharmaceutical Manufacturing



# SELECTION GUIDE :

## TELA-SHIELD

Part No.	OUTER			INNER		FIXTURE			STRAP				MARKING		
	Kumilon	Canvas	PVC	Polyester	Fire retardant- Polyester	Hook & Loop tape	Self-Buckle	Tie down rope	None	Cable Tie - Nylon6	Hose clamp	Lining strap	None	Color Mark	Luminous color
TW1-PLT-HLT-NON-M01	•			•		•			•				•		
TW1-FPL-HLT-NON-M01	•				•	•			•				•		
TW1-PLT-SBK-NON-M01	•			•			•		•				•		
TW1-FPL-SBK-NON-M01	•				•		•		•				•		
TW1-PLT-TDR-NON-M01	•			•				•	•				•		
TW1-FPL-TDR-NON-M01	•				•			•	•				•		
TW1-PLT-HLT-CNY-M01	•			•		•				•			•		
TW1-FPL-HLT-CNY-M01	•				•	•			•				•		
TW1-PLT-SBK-CNY-M01	•			•			•		•				•		
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TW1-PLT-TDR-CNY-M01	•			•				•	•				•		
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TW1-PLT-HLT-HCL-M01	•			•		•					•		•		
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# SELECTION GUIDE : TELA-SHIELD

Part No.	OUTER			INNER		FIXTURE			STRAP				MARKING		
	Kumilon	Canvas	PVC	Polyester	Fire retardant- Polyester	Hook & Loop tape	Self-Buckle	Tie down rope	None	Cable Tie - Nylon6	Hose clamp	Lining strap	None	Color Mark	Luminous color
TW3-PLT-HLT-NON-M01			•	•		•			•				•		
TW3-FPL-HLT-NON-M01			•		•	•			•				•		
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## FLANGE-VALVE PROTECTOR

### TELA-HEAT-SHIELD



## FLANGE-VALVE PROTECTORS & SPRAY SHIELDS

Flange-Valve Protectors & Flange-Valve Spray Shields are meticulously engineered to provide a robust and reliable solution for protecting flange-valve systems from unexpected sprays, leaks, and chemical hazards. Crafted from high-quality PVC, PTFE & ETFE, these protectors / shields offer unparalleled chemical resistance and are designed for a customized fit, ensuring a seamless and secure protection solution.

- Engineered from premium PVC, PTFE & ETFE for superior resistance to a wide range of chemicals.
- Swiftly reacts to chemical contact, forming an impermeable barrier to mitigate potential hazards.
- Tailored design for every flange configuration, providing a perfect fit.
- Transparent design (optional) enables comprehensive monitoring, allowing quick identification of leaks or anomalies.



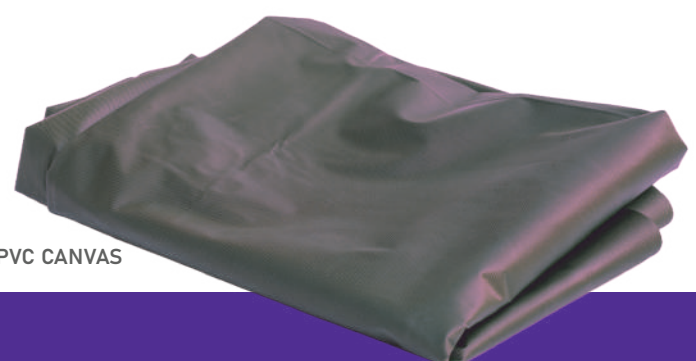
PTFE



ETFE

### Applications :

- Chemical Processing
- Petrochemical Industry
- Power Generation Plants
- Water Treatment Facilities
- Pharmaceutical Manufacturing



PVC CANVAS

# SELECTION GUIDE : TELA-HEAT-SHIELD

Part No.	OUTER		INNER	FIXTURE			STRAP			MARKING			
	Silica coated fiber glass fabric	Silicone coated fiber glass fabric	Ceramic fiber	Hook & Loop tape	Self-Buckle	Tie down rope	None	Cable Tie - Nylon6	Hose clamp	Lining strap	None	Color Mark	Luminous color
TW4-CMF -HLT-NON-M01	•		•	•			•				•		
TW4-CMF -SBK-NON-M01	•		•		•		•				•		
TW4-CMF -TDR-NON-M01	•		•			•	•				•		
TW4-CMF -HLT-CNY-M01	•		•	•				•			•		
TW4-CMF -SBK-CNY-M01	•		•		•			•			•		
TW4-CMF -TDR-CNY-M01	•		•			•		•			•		
TW4-CMF -HLT-HCL-M01	•		•	•					•		•		
TW4-CMF -SBK-HCL-M01	•		•		•				•		•		
TW4-CMF -TDR-HCL-M01	•		•			•			•		•		
TW4-CMF -HLT-LNS-M01	•		•	•						•	•		
TW4-CMF -SBK-LNS-M01	•		•		•					•	•		
TW4-CMF -TDR-LNS-M01	•		•			•				•	•		
TW4-CMF -HLT-NON-M02	•		•	•			•					•	
TW4-CMF -SBK-NON-M02	•		•		•		•					•	
TW4-CMF -TDR-NON-M02	•		•			•	•					•	
TW4-CMF -HLT-CNY-M02	•		•	•				•				•	
TW4-CMF -SBK-CNY-M02	•		•		•			•				•	
TW4-CMF -TDR-CNY-M02	•		•			•		•				•	
TW4-CMF -HLT-HCL-M02	•		•	•					•			•	
TW4-CMF -SBK-HCL-M02	•		•		•				•			•	
TW4-CMF -TDR-HCL-M02	•		•			•			•			•	
TW4-CMF -HLT-LNS-M02	•		•	•						•		•	
TW4-CMF -SBK-LNS-M02	•		•		•					•		•	
TW4-CMF -TDR-LNS-M02	•		•			•				•		•	
TW4-CMF -HLT-NON-M03	•		•	•			•						•
TW4-CMF -SBK-NON-M03	•		•		•		•						•
TW4-CMF -TDR-NON-M03	•		•			•	•						•
TW4-CMF -HLT-CNY-M03	•		•	•				•					•
TW4-CMF -SBK-CNY-M03	•		•		•			•					•
TW4-CMF -TDR-CNY-M03	•		•			•		•					•
TW4-CMF -HLT-HCL-M03	•		•	•					•				•
TW4-CMF -SBK-HCL-M03	•		•		•				•				•
TW4-CMF -TDR-HCL-M03	•		•			•			•				•
TW4-CMF -HLT-LNS-M03	•		•	•						•			•
TW4-CMF -SBK-LNS-M03	•		•		•					•			•
TW4-CMF -TDR-LNS-M03	•		•			•				•			•
TW5-CMF -HLT-NON-M01		•	•	•			•				•		
TW5-CMF -SBK-NON-M01		•	•		•		•				•		
TW5-CMF -TDR-NON-M01		•	•			•	•				•		
TW5-CMF -HLT-CNY-M01		•	•	•				•			•		
TW5-CMF -SBK-CNY-M01		•	•		•			•			•		
TW5-CMF -TDR-CNY-M01		•	•			•		•			•		
TW5-CMF -HLT-HCL-M01		•	•	•					•		•		
TW5-CMF -SBK-HCL-M01		•	•		•				•		•		
TW5-CMF -TDR-HCL-M01		•	•			•			•		•		
TW5-CMF -HLT-LNS-M01		•	•	•						•	•		
TW5-CMF -SBK-LNS-M01		•	•		•					•	•		
TW5-CMF -TDR-LNS-M01		•	•			•				•	•		
TW5-CMF -HLT-NON-M02		•	•	•			•					•	
TW5-CMF -SBK-NON-M02		•	•		•		•					•	
TW5-CMF -TDR-NON-M02		•	•			•	•					•	
TW5-CMF -HLT-CNY-M02		•	•	•				•				•	
TW5-CMF -SBK-CNY-M02		•	•		•			•				•	
TW5-CMF -TDR-CNY-M02		•	•			•		•				•	
TW5-CMF -HLT-HCL-M02		•	•	•					•			•	
TW5-CMF -SBK-HCL-M02		•	•		•				•			•	
TW5-CMF -TDR-HCL-M02		•	•			•			•			•	
TW5-CMF -HLT-LNS-M02		•	•	•						•	•		
TW5-CMF -SBK-LNS-M02		•	•		•					•	•		
TW5-CMF -TDR-LNS-M02		•	•			•				•	•		
TW5-CMF -HLT-NON-M03		•	•	•			•						•
TW5-CMF -SBK-NON-M03		•	•		•		•						•
TW5-CMF -TDR-NON-M03		•	•			•	•						•
TW5-CMF -HLT-CNY-M03		•	•	•				•					•
TW5-CMF -SBK-CNY-M03		•	•		•			•					•
TW5-CMF -TDR-CNY-M03		•	•			•		•					•
TW5-CMF -HLT-HCL-M03		•	•	•					•				•
TW5-CMF -SBK-HCL-M03		•	•		•				•				•
TW5-CMF -TDR-HCL-M03		•	•			•			•				•
TW5-CMF -HLT-LNS-M03		•	•	•						•	•		•
TW5-CMF -SBK-LNS-M03		•	•		•					•	•		•
TW5-CMF -TDR-LNS-M03		•	•			•				•	•		•



## UNDER-WATER

### FLANGE & VALVE PROTECTOR (TELA-GEO)



## UNDER-WATER FLANGE-VALVE PROTECTERS (TELA-GEO)

In the realm of off-shore integrity, where precision meets protection, Tela-Geo (Under-water flange-valve protector) emerges as choice for your critical pipeline infrastructure which either water reached or locates under water, it is excellent in liquid evacuating with heat and sedimen filtration remains.

- Tela-Geo is not just a cover; it's a bespoke shield tailored to fit the unique contours of your underwater pipelines, providing unrivaled protection against abrasion, environmental factors, and subsea challenges.
- Crafted from high-strength Geotextile, our solution is engineered to withstand the harsh marine environment, ensuring longevity and continuous protection against corrosion and external pressures.
- Resistant to UV degradation and marine organisms, our Geotextile solution upholds environmental standards, minimizing the impact on the underwater ecosystem.

### Applications :

- Ideal for safeguarding oil and gas pipelines, submarine power cables, and underwater infrastructure in offshore installations.



**SELECTION GUIDE :**  
**TELA-GEO**

Part No.	OUTER	INNER	FIXTURE		STRAP	MARKING		
	Geo textile	Non-woven Geotextile	Hook & Loop tape	Self-Buckle	Ratchet strap	None	Color Mark	Luminous color
TW6-NWG -HLT-RCS-M01	•	•	•		•	•		
TW6-NWG -SBK-RCS-M01	•	•		•	•	•		
TW6-NWG -HLT-RCS-M02	•	•	•		•		•	
TW6-NWG -SBK-RCS-M02	•	•		•	•		•	
TW6-NWG -HLT-RCS-M03	•	•	•		•			•
TW6-NWG -SBK-RCS-M03	•	•		•	•			•

**UNDER-WATER FLANGE-VALVE PROTECTERS**



## TRANSPARENT PIPE COUPLING

COUPLING | TUBE | HOSE | SLEEVE



### PVC | CPVC TRASPARENT (TELA-VISUAL)

Transparent pipe couplings offer a valuable solution for applications where visual inspection is necessary. They contribute to efficiency, safety and quick identification of issues within the piping system. Offering an unobstructed view into your either solid or fluid conveyance systems, these couplings / tubes / hoses / sleeves empower you with real-time monitoring capabilities. Witness the flow, identify potential issues, and streamline maintenance without the hassle of dismantling.

Experience a heightened level of control and efficiency as you gain an immediate understanding of your system's performance. The transparent design not only simplifies troubleshooting but also allows for quick leak detection and proactive problem-solving. It's the assurance of a clear insight, providing a visual edge to your operational endeavors and ensuring a seamless flow in every facet of your processes.

#### Applications :

- Chemical Processing
- Petrochemical Industry
- Powder conveying system
- Pharmaceutical Manufacturing



CPVC | PVC



**SELECTION GUIDE :**  
**TELA-VISUAL**

Part No.	OUTER	INNER	FIXTURE		STRAP	MARKING
	Transparent PVC	None	Hose clamp	Sleeve clamp	None	None
TW7-NON -HCL-NON-M01	•	•	•		•	•
TW7-NON -SCL-NON-M01	•	•		•	•	•



## FABRIC EXPANSION JOINT

(FLEXIBLE EXPANSION JOINT)



## TELA-JOINT

A fabric expansion joint, also known as a flexible expansion joint or fabric compensator, is a specialized device designed to absorb and compensate for movements, vibrations and thermal expansions in industrial piping and ducting systems. These joints play a crucial role in maintaining the integrity of these systems by accommodating various stresses that may arise during operation, thanks to LDPE & HDPE properties.

### Applications :

- Power Generation
- Petrochemical Industry
- Marine and Shipbuilding
- Industrial Processes | Chemical Processes
- HVAC Systems
- Cement Plants | Steel Mills | Paper and Pulp Industry
- Pharmaceutical Manufacturing



## SELECTION GUIDE : TELA-JOINT

Part No.	OUTER			INNER	FIXTURE		STRAP	MARKING		
	Kunilon	Silica coated fiber glass fabric	Silicone coated fiber glass fabric	None	CS Joint	SS Joint	None	None	Color Mark	Luminous color
TW1-NON-CSJ-NON-M01	•			•	•		•	•		
TW1-NON-SSJ-NON-M01	•			•		•	•	•		
TW1-NON-CSJ-NON-M02	•			•	•		•		•	
TW1-NON-SSJ-NON-M02	•			•		•	•		•	
TW1-NON-CSJ-NON-M03	•			•	•		•			•
TW1-NON-SSJ-NON-M03	•			•		•	•			•
TW4-NON-CSJ-NON-M01		•		•	•		•	•		
TW4-NON-SSJ-NON-M01		•		•		•	•	•		
TW4-NON-CSJ-NON-M02		•		•	•		•		•	
TW4-NON-SSJ-NON-M02		•		•		•	•		•	
TW4-NON-CSJ-NON-M03		•		•	•		•			•
TW4-NON-SSJ-NON-M03		•		•		•	•			•
TW4-NON-CSJ-NON-M01			•	•	•		•	•		
TW4-NON-SSJ-NON-M01			•	•		•	•	•		
TW4-NON-CSJ-NON-M02			•	•	•		•		•	
TW4-NON-SSJ-NON-M02			•	•		•	•		•	
TW4-NON-CSJ-NON-M03			•	•	•		•			•
TW4-NON-SSJ-NON-M03			•	•		•	•			•

## CUSTOM FABRIC WORKS



### FIRE BLANKET

Fire blanket designed for high temperatures must be crafted from heat-resistant materials like woven fiberglass, aramid fibers such as Nomex or Kevlar, or ceramic fibers, ensuring it can withstand extreme heat without degradation. It should possess a temperature rating exceeding 1,000 degrees Celsius (1,832 degrees Fahrenheit) and have sufficient thickness and density to offer effective insulation against heat. Some blankets may be coated or treated with heat-resistant compounds for enhanced performance, while chemical-resistant properties can provide added durability. Certifications from organizations like UL or EN ensure quality and reliability. Proper storage, handling, and size compatibility with the intended application are also essential considerations, enabling the blanket to effectively smother flames and protect against intense heat in high-temperature environments.

#### HERE'S A CONCISE LIST OF STEPS FOR USING A FIRE BLANKET :

- Assess the Situation :** Ensure personal safety before attempting to extinguish the fire.
- Protect Your Hands :** Wear gloves or mitts to shield against heat.
- Unfold the Blanket :** Hold it by the tabs or handles provided.
- Approach the Fire :** Cautiously move toward the fire, avoiding direct contact with flames.
- Cover the Fire :** Completely smother the flames with the blanket, ensuring no gaps.
- Leave in Place :** Keep the blanket over the fire for several minutes to prevent reignition.
- Seek Professional Help :** Contact emergency services and ensure the area is inspected after use.

Remember, fire blankets can also be used to wrap around a person whose clothing has caught fire. Regular inspection and maintenance are crucial for their effectiveness.



# TAILOR-MADE FABRIC WORKS



## WHY TELAWERK ?

<b>Safety Assurance</b>	:	Uncompromised protection for critical flange-valve systems.
<b>Precision Engineering</b>	:	Crafted with meticulous attention to detail for reliability.
<b>Long-Term Reliability</b>	:	High material quality ensures durability and extended service life.
<b>Compliance Confidence</b>	:	Meets industry standards and compliance requirements. MTC EN 10204 type 2.1 provided as minimum and traceable to mill origin

Our company has

**20** NEARLY  
**YEARS**  
OF EXPERIENCE IN THE FIELD  
OF FABRICATION WORK

Especially work which is required high quality, high precision, durable material and works warranty, thinking of us, we are able to offer the best solutions right to that task. In case your project requires a specific set of features, we are ready to hear your requirements and find any solutions to achieve that goals.



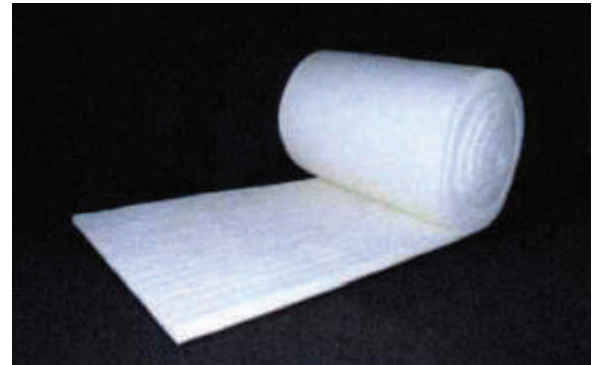


## MATERIAL – CERAMIC FIBER

### CERAMIC FIBER

Luyanwool blanket is high strength, needled insulating blanket that is made from Ceramic fiber blown spun bulk. The combination of long spun fiber and needling operation produce tough, resilient and strong blanket, which resist tearing bolt before and after heating. Luyanwool blanket is completely inorganic and available in a variety of temperature grades, densities, and sizes. Luyanwool blanket can be folded, compressed and encapsulated to produce modules.

Ceramic fiber blankets are available in various thicknesses and densities to suit different insulation needs, offering excellent thermal insulation properties while also providing sound absorption and chemical stability. These blankets are commonly used in industrial applications such as lining furnaces, kilns, boilers, and ovens to improve energy efficiency and protect equipment from heat. They are also utilized in automotive, aerospace, and petrochemical industries for insulation and fire protection purposes. Ceramic fiber blankets are easy to handle and install, making them a popular choice for both professional and DIY insulation projects. However, proper protective equipment should be worn during installation to prevent skin irritation from the fibers.



#### Features :

- Excellent thermal shock resistance
- Excellent thermal stability
- High tensile strength
- Low heat strong
- Low thermal conductivity

#### Applications :

- Pipe wrap
- Furnace and kiln backup insulation
- Chimney insulation
- Annealing furnace linings
- Process heater linings

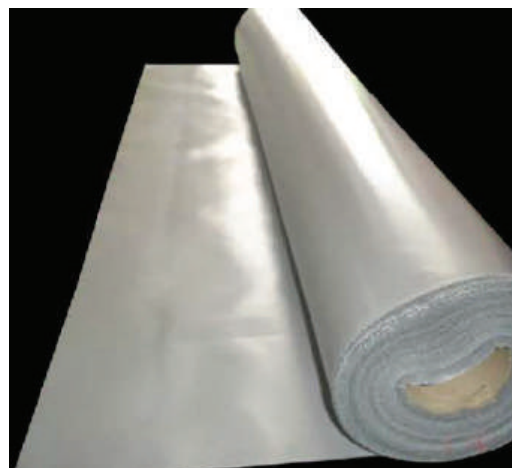


# MATERIAL – FIBERGLASS FABRIC

## FIBERGLASS COATED SILICONE

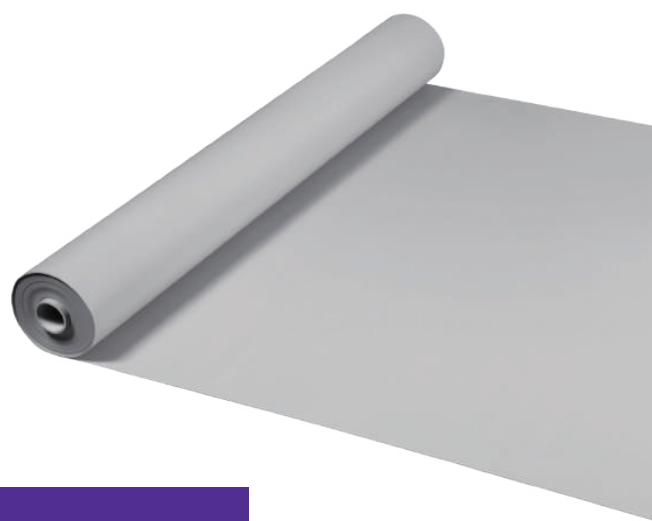
SC450 fiberglass fabric coated with silicone rubber on both sides. It is application for removable insulation pads protective protective flange shield and equipments covers, welding curtains and expansion joints.

Fiberglass fabric coated with silicone is a versatile material known for its exceptional heat resistance, flexibility, and durability. The silicone coating enhances the fabric's ability to withstand high temperatures, making it suitable for applications requiring thermal insulation and protection. Its flexibility allows it to conform to irregular shapes and surfaces, making it ideal for use in removable insulation jackets, protective covers, and fireproof barriers. The silicone coating also provides water and chemical resistance, ensuring durability in harsh environments. With its non-stick surface and abrasion resistance, fiberglass fabric coated with silicone is commonly used in industries such as aerospace, automotive, and manufacturing for applications ranging from electrical insulation to composite molding processes.



### Features :

- Flam resistance & high thermal stability
- Water-proofing
- Good abrasion & flexibility
- Good electrical insulating effect
- Dirt and oil repelling effect
- Chemically & alkaline resistant
- Temperature rang from -50 to +550 C



## Specification

Base fabric	Fiberglass
Color	Gray silicone
Width (+-5%)	560 g/m2 (fabric+Coating)
Thickness (+-5%)	0.5- 1 mm
Width (+-5%)	1.50 mtr.
Length	50 mtr. Per roll
Finish	Both sides
Silicone Temperature	280 C
Fabric Temperature	550 C

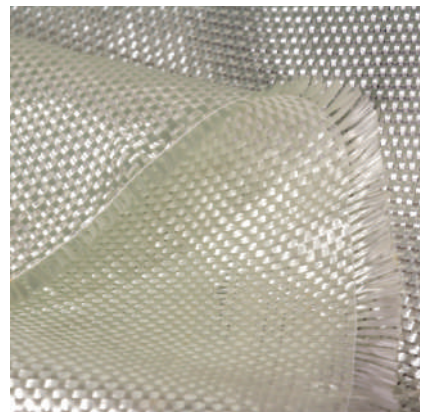
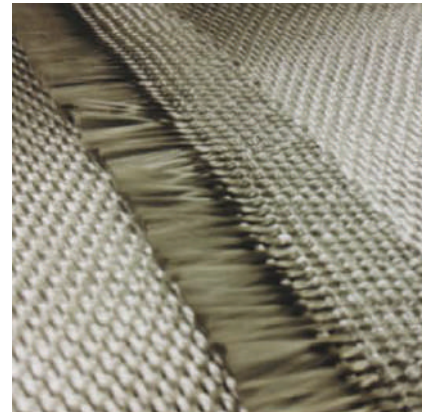
# MATERIAL – FIBERGLASS FABRIC

## FIBERGLASS COATED SILICA

ST1800 Silica are woven from continuous silica yarns, have higher tensile strength than those that leached from E-glass fabric. This fabric are applicable to all thermal insulation protection fire and welding blanket, Turbine cover, Exhaust silencer cover and Curtains that encountered high temperature up to 1760° C melting point.

Silica fabric have very high tensile strength to weight ration, incombustible, mildew resistant and provide excellent heat protection. When exposed to heat, it neither emits flame nor toxic products.

Silica fabric are widely use in petrochemical, oil & gas, Chemical, Shipyard, Aerospace, Power generation, Steel, Aluminum and orther metals factory.



### Specification

Components	Silica
Appearance color	Golden Beige/tan
SiO2 content	>96%
Width (+-5%)	1250 g/m2
Thinkness (+-5%)	0.7 mm- 1.3 mm
Width (+-5%)	0.920 mtr.
Lenght	46 , 50 mtr. Per roll
Counting (Per cm)	118x13
Breaking Strength	1200 x 1500 lbs/in
Weaving type	Satin
Finish	Heat Theated
Service Temparature	1,000 C
Melting point	1,800 C
Flammability	Non-flammable
Ignitability	0 rating
Spread of flame	0 rating
Solubility in water	Insoluble
Personal protection	ware safety glasses or goggles, gloves and respirator

# MATERIAL – FIBERGLASS FABRIC

## SILICA CLOTH COATED WITH DOUBLE SIDE SILICONE

STR800 are woven from continuous SILICA YARNS, have higher tensile strength than those that leached from E-glass fabric. These fabric are applicable to all thermal insulation protection, fire and welding blanket, Turbine cover, Exhaust silencer cover and Curtains that encountered high temperature up to 1600° C melting point.

Silica coated with double-sided silicone refers to a material where silica fibers are coated with silicone on both sides. This type of material combines the thermal resistance of silica with the flexibility and non-stick properties of silicone. Silica fibers offer high-temperature resistance and mechanical strength, making them suitable for applications requiring thermal insulation and protection. The silicone coating on both sides enhances the material's flexibility, making it easier to handle and shape, while also providing a non-stick surface. This combination of properties makes silica coated with double-sided silicone ideal for applications such as removable insulation jackets, protective covers, and thermal barriers in industries like aerospace, automotive, and manufacturing. Additionally, the silicone coating adds durability and weather resistance to the material, ensuring its performance in harsh environments.



### Specification

Components	Silica coated with Silicone on double side
Thickness	0.8 mm - 1.5 mm.
Width	0.920 meter
Roll length	46,50 mtr. per roll
Color	Red
Weave type	Satin 8HS
Fabric weight	800 g/m2
Temperature Resistance capability	1,000 C (for silica) 280 C (for silicone coating)
Chemical composition	>96% silicone dioxide or SiO2
Setting per warp	18+ -2 per cm
Setting per wert	13+ -2 per cm
Tensile strength warp	>6,000 N/Inch
Tensile strength wert	>500 N/Inch
Flammability	Non-flammable
Ignitability	0 rating
Spread of flame	0 rating
Solubility in water	Insoluble
Personal protection	ware safety glasses or goggles, gloves and respirator



## NONWOVEN GEOTEXTILES

are mechanically robust and highly durable with optimum water permeability and soil filtration characteristics. The nonwoven geotextiles are UV stabilized to prevent quick degradation from sun exposure and is commonly applied as a separator to stabilize fill over soft subgrades, revetment filtration in hydraulic and marine applications and as a subsoil filter. nonwoven geotextile is indeed the ideal separation and filter geotextile for civil engineering.

Benefits of nonwoven geotextiles:

- Stabilizes base courses over low bearing capacity subgrades
- Provides excellent tensile strength and elongation properties
- Maintains the function of drainage systems
- Offers high permeability to water and retains finest soil particles
- Provides high long-term resistance and robustness

### FUNCTIONALITIES OF POLYFELT® TS AND KET

#### Filtration

The equilibrium soil-to-geotextile system that allows for adequate movement of a liquid across the plane of the geotextile to prevent clogging and limit soil loss over the service lifetime of the application.

#### Drainage

The major function of draining is to evacuate water or other liquids towards the structure's outlets.

#### Separation

The placement of a flexible, porous geotextile between dissimilar materials to prevent them from mixing so that the integrity and intended functions of both materials remain intact or are improved.



**POLYFELT**

## HPA SUBGRADE

is a specially developed class of geotextiles that combines all the critical performance functions for optimum subgrade stabilization design of roadway systems

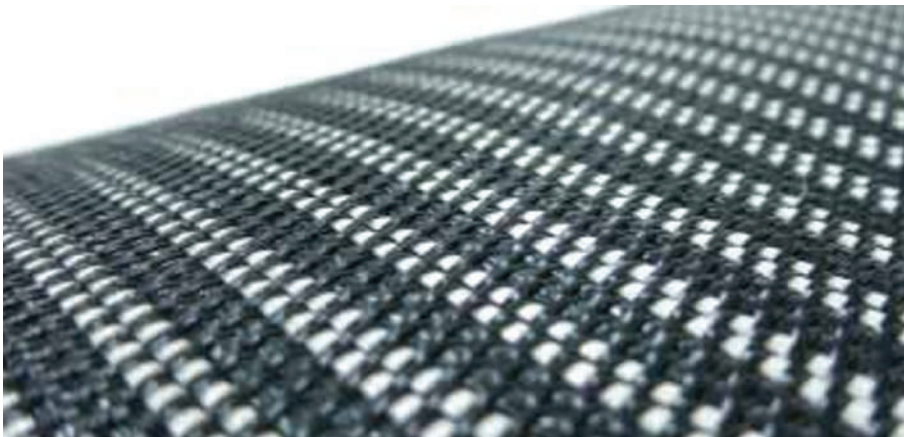
### Applications :

**Separation performance** : the small opening size of Mirafi HPA geotextiles helps prevent intrusion of aggregates into the soft subgrade as well as prevent pumping of fines from the subgrade upwards into the aggregate layer overtime; geogrids with large apertures have poor separation performance.

**Reinforcement performance** : the high initial modulus of Mirafi HPA geotextiles makes it ideal as basecourse reinforcement. This reinforcement performance is effective at all angles of stressing.

**Aggregate confinement performance** : the high interface interaction coefficient of Mirafi HPA geotextiles with granular material restrains outward shear at the interface of aggregate layer and subgrade, thereby contributing to bearing capacity improvement of the subgrade.

**Permeability performance** : the high permeability of Mirafi HPA geotextiles allows rapid dissipation of excess pore water pressure that usually develops in the subgrade when wheel loads are induced, thereby helping to minimize undrained conditions and reduce plastic deformations in the subgrade.



MIRAFI

## MATERIAL – PVC CANVAS

### HC PVC CANVAS

Highly Chlorinated Polyvinyl Chloride (HC PVC) canvas serves critical roles in the oil and gas industry due to its exceptional durability and chemical resistance. Employed in the fabrication of containment and protective barriers, HC PVC canvas provides robust solutions for oil spill response, ensuring effective containment and preventing environmental damage. Its resistance to oil, chemicals, and abrasion makes it an ideal material for flexible pipeline coatings, protecting against corrosion and external environmental factors. HC PVC canvas is also utilized in the construction of weather-resistant and flame-retardant enclosures for equipment in oil and gas facilities, safeguarding sensitive machinery from harsh outdoor conditions. Additionally, its use extends to flexible storage tanks and barriers, offering a reliable and durable solution for the containment and transport of oil and hazardous materials. In the oil and gas sector, HC PVC canvas plays a crucial role in enhancing safety, environmental protection, and the longevity of equipment and infrastructure.

#### Product Specification

Points	Detail
Series	5000
Width	44" - 72"
Wrap yarn	Thread no. 10/1 : 46"+/-1"
Weft yarn	Thread no. 10/1 : 39"+/-1"
Thickness	0.48 - 0.50 mm
Weight	520 - 560 g/m <sup>2</sup>
Tensile Strength	Wrap : 136 kg (+/-10)
	Wrap : 115 kg. (+/-10)
Water proof	over 1,000 m <sup>3</sup>



Color Selection

# MATERIAL – PVC SHEET

SOLID | TRANSPARENCY COLOR

## FLEXI-PVC SHEET



### Product Specification

Point	Detail
Material	High-Quality PVC (Polyvinyl Chloride)
Chemical Resistance	Exceptional resistance to a wide range of chemicals, including acids, salts, corrosives, bases, fats, and alcohols. **NOT compatible with tetrahydrofuran or acetone, often incompatible with solvents
Temperature Range	Suitable for operating temperatures ranging not greater than 70°C
Color	Solid Color [Orange, Yellow, Green or upon request], Entire Clear color, Centered-Strip Clear Color
Compliance	All material meets industry standards for safety and environmental regulations e.g. OSHA, EPA, MSHA, SOLAS, ABS, and DNV
Applications	Ideal for use in chemical processing, petrochemical industries, power generation, water treatment, and pharmaceutical manufacturing; especially in Flanges, Valves, Expansion Joints, Fittings, Flexible Hoses, Pipe, Sight Glasses, Manholes, Instruments, Pumps and specific applications
Dimensions	Available in various sizes to accommodate different flange dimensions by custom designing and manufacturing for special sizes and specific applications.
Thickness	1 mm - 6 mm for durability and long-term reliability.
Testing and Certification	MTC EN 10240 TYPE 2.1 as minimum



## MATERIAL

STEEL STRAP | HOOK & LOOP TAPE | THREAD

### BANDIMEX L-BAND

for light-duty clamping application,  
full round edge, SS-CrNi  
Thickness : 0,4 mm - 0.016"

#### 30 m/roll

Cat.No.	Width	kg
B 133	9,5 mm-3/8"	0,9
B 134	12,7mm-1/2"	1,2
B 135	16,0mm-5/8"	1,5
B 136	19,0mm-3/4"	1,8

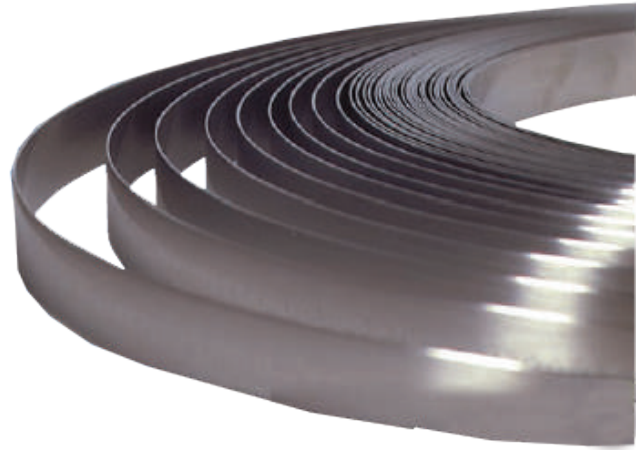
#### 50 m/roll

Cat.No.	Width	kg
B 127	9,5 mm-3/8"	1,5
B 128	12,7mm-1/2"	2,0
B 129	16,0mm-5/8"	2,5
B 130	19,0mm-3/4"	3,0

#### 90 m/roll

Cat.No.	Width	kg
B 123	9,5 mm-3/8"	2,7
B 124	12,7mm-1/2"	3,7
B 125	16,0mm-5/8"	4,6
B 126	19,0mm-3/4"	5,5

On request also available in mill coil lengths.



### BANDIMEX L-CLIPS

for use with Bandimax L-Band, SS-CrNi

#### 100 Pcs./Box

Cat.No.	for band width	kg
B 153	9,5 mm-3/8"	0,3
B 154	12,7mm-1/2"	0,4
B 155	16,0mm-5/8"	0,5
B 156	19,0mm-3/4"	0,9
B 176*	19,0mm-3/4"	1,1

\*reinforced for extra strength



## 3M™ HOOK AND LOOP TAPE



An Adaptable and Efficient Closure Solution

Achieve the perfect balance between easy application and secure closure with our flexible reclosure option. Designed to effortlessly conform to your part shape and remain securely closed until you decide to peel it open, 3M™ Hook and Loop Fasteners provide unparalleled flexibility for both part shaping and product design in manufacturing.

**3M Adhesives Integration:** Our hook and loop fasteners come equipped with 3M Industrial Adhesives on the back, ensuring easy application and a strong bond to various substrates across a range of applications.

**Streamlined Manufacturing with Easy-Remove Liner:** Enhance manufacturing efficiency by eliminating liner struggles with the easy-release liner. The Easy Peel Edge is specifically engineered for hassle-free removal, whether by machine or hand.

**Durable Reclosure Capability:** With a robust design, 3M™ Hook and Loop Fasteners can endure up to 5,000 cycles of opening and reclosing, making them a reliable choice for applications requiring frequent use over a long lifetime.

In undersea applications, hook and loop tape can find utility in various marine and underwater contexts. For underwater research and exploration equipment, hook and loop tape can be used as a versatile and secure fastening solution for attaching sensors, data loggers, or other devices to underwater structures or vehicles. In subsea cable management, it can help organize and secure cables, preventing tangling and ensuring proper functionality. Additionally, hook and loop tape may be employed in underwater infrastructure projects, such as securing protective covers or insulating materials to subsea pipelines or equipment. The ease of use and reusability of hook and loop tape make it suitable for temporary or adjustable applications in undersea environments, providing a practical fastening solution that adapts to the challenges posed by marine conditions.

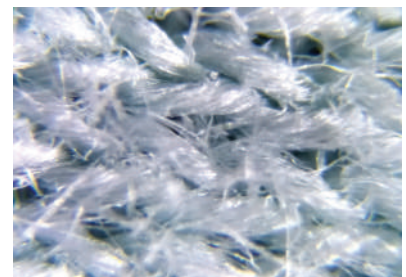
## FIBRILLATED MICRO SYNTHETIC FIBERS

### DESCRIPTION

FIBRIL-PRO®, a Microsynthetic Fiber, is a 400-denieribrillated polypropylene fiber manufactured from 100% virgin homopolymer polypropylene resins. This product introduces considerably more ibrillated bundles to the concrete matrix. These bundles are easy to distribute and finish. The fiber spacing is considerably less than the standard fibrillated products, thus providing increased resistance to plastic shrinkage cracking and drying shrinkage cracking.

### PHYSICAL PROPERTIES

Speciic Gravity	0.91
Melting Point	320°F (160°C)
Ignition Point	1,094°F (590°C)
Water Absorption	Nil
Acid and Alkali Resistance	Excellent
Modulus of Elasticity	800ksi
Tenacity	4.5 grams/den
Available Lengths	1/2" (12mm), 3/4 (19mm), 1" (25)



### FEATURES & BENEFITS

- Excellent Distribution
- Excellent temperature-shrinkage reinforcement
- Modifies macro-micro cracking mechanism
- Reduces plastic settlement
- Extends service life with reduced maintenance
- Enhances Fatigue Strength
- Enhances impact, pullout and surface abrasion resistance
- Reduces permeability

### APPLICATIONS

- Residential and Commercial Slabs-on-Ground
- Ultra Thin Whitetopping
- Architectural Precast Products and Ornamental Elements
- Irrigation Ditches/Channels
- Shotcrete Applications

# MATERIAL

## RATCHET STRAP

When it comes to marine applications, durability and resistance to corrosion are crucial factors to consider for any equipment or material. For ratchet straps specifically designed for marine use, you'll want to look for those made with materials that can withstand exposure to saltwater, UV rays, and other harsh conditions typically encountered in marine environments.

Here are some key features to look for in ratchet straps suitable for marine grade

### **MATERIAL**

Opt for straps made from marine-grade materials such as stainless steel, polyester, or polypropylene. Stainless steel is highly resistant to corrosion, while polyester and polypropylene offer excellent strength and UV resistance.

### **CORROSION RESISTANCE**

Ensure that all metal components, including the ratchet mechanism and hooks, are made from stainless steel or other corrosion-resistant materials. This helps prevent rust and corrosion, extending the lifespan of the strap.

### **UV RESISTANCE**

Look for straps with UV-resistant coatings or treatments on the webbing material. Prolonged exposure to sunlight can weaken and degrade standard straps, so UV protection is essential for maintaining strength and integrity.

### **LOAD CAPACITY**

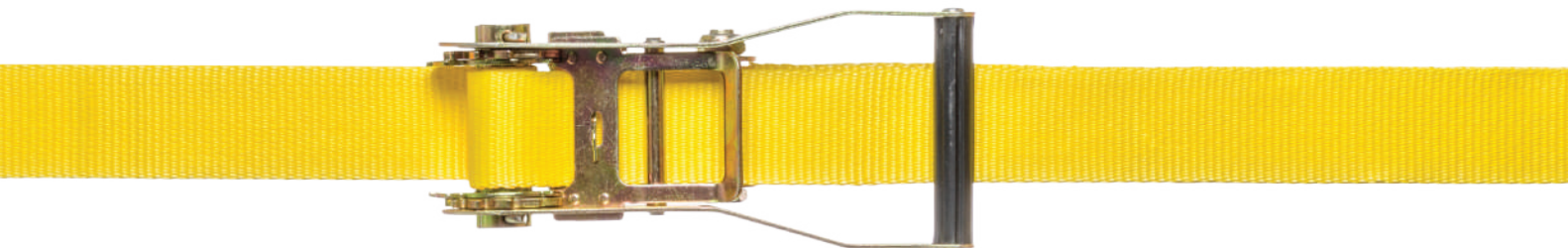
Consider the weight and size of the loads you'll be securing and choose ratchet straps with appropriate load capacities. Make sure the straps you select are rated for the loads you intend to transport.

### **CERTIFICATIONS**

Check for certifications such as ASTM (American Society for Testing and Materials) or EN (European Norm) standards for marine-grade straps. These certifications ensure that the straps meet certain quality and performance criteria.

### **WATER RESISTANCE**

While no strap is completely waterproof, look for straps with water-resistant properties to prevent absorption and potential weakening of the material over time.



## CABLE TIE - STAINLESS STEEL

- Corrosion resistant : for marine and industrial environments.
- Strong and durable : capable of holding heavy loads.
- Resistant : to extreme temperatures, UV radiation, and fire.
- Reusable : providing cost savings and environmental benefits.
- Tamper resistant : and hygienic, suitable for various applications.
- Available : in different sizes and designs for easy installation and versatility.



## CABLE TIE - NYLON



Nylon cable ties, also known as zip ties, offer several key features making them widely used for bundling and securing cables, wires, and other objects. They are lightweight, flexible, and easy to handle, allowing for quick and effortless installation by hand without the need for specialized tools.

Nylon cable ties are available in various lengths, widths, and colors, providing versatility for different applications. They offer strong tensile strength and are resistant to moderate environmental conditions such as moisture, mild chemicals, and UV exposure, making them suitable for indoor and outdoor use. Additionally, nylon cable ties are cost-effective and disposable, providing a convenient and economical solution for organizing and securing cables in residential, commercial, and industrial settings.

## HOSE CLAMPS

Hose clamps are essential fastening devices designed to secure hoses onto fittings to prevent leakage or disconnection. Featuring a circular band typically made of stainless steel or other durable materials, hose clamps utilize a screw mechanism to tighten around the hose, creating a tight seal. Their adjustable design allows for a snug fit onto various hose sizes, making them versatile for a wide range of applications in automotive, industrial, plumbing, and agricultural settings.

Hose clamps come in various styles, including worm gear, spring-loaded, and T-bolt clamps, offering flexibility and reliability in securing hoses under different pressure and temperature conditions. Their robust construction, ease of installation, and ability to provide uniform clamping force make hose clamps indispensable components for maintaining fluid transfer systems across diverse industries.

