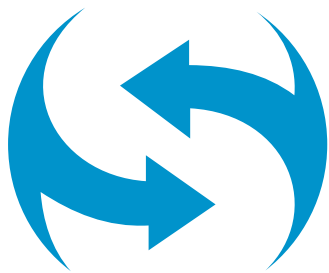


AN IATF 16949:2016
AN ISO 9001:2015



ShiftAir
Beyond the limits...

Director Message

“ Making profit is not the first goal of our business. The primary goal is to develop trust through ethical and dedicated services.

The relationship we have forged and the trust we have created with our customers matters most to our success at the end of the day.”

I always perceived my company as a unit that could make a difference with its quality, delivery and competitively priced products

The journey of ShiftAir is never ending. But with the support of our team and customers, I am confident that the company will continue to scale milestones of excellence for years to come.

Mission

To prepare a team of leaders in each sphere of operations by adopting latest technologies and best manufacturing practices so as to provide a strong base to meet the changing needs of customer.

Vision :

Partner of choice to Global Customers .



ABOUT US

We at **ShiftAir India Pvt. Ltd.** are an IATF 16949:2016 and ISO 9001:2015 certified organization and has acquired a major share of the market by addressing the specific requirements of the Industry with stringent requirements considering following points.



- Economy-Minded Attitude
- Significant product variety
- An increased need for Safety
- Proactive approach towards problem solving.
- Development of special component in shorter time.

We at **ShiftAir**, specialize in production of various products majorly used in hose and cable protection systems, industrial hoses and general industries.

OUR PRESENCE

- Commercial Vehicles
- Passenger Vehicles
- Agri Machinery
- Earthmovers and Off Road Vehicles
- Two & Three Wheelers



CORRUGATED ALUMINIUM HEAT SLEEVE

Corrugated Aluminium Heat Sleeve (SAI-CAHS) :-

SAI-CAHS are generally used in areas where surrounding temperature is high & it provides excellent long-term heat protection for rubber hoses, wire harness and cables in high temperature areas.

Key Highlights

- SAI-CAHS are multi-ply sleeves of woven fiberglass and Special aluminum alloy, mechanically overlapped then bonded to each other.
- The proprietary manufacturing process produces strong and lightweight sleeves, which can be used on convoluted tubes.
- SAI-CAHS have a highly engineered appearance.
- SAI-CAHS are resistant to extreme heat, can withstand temperature up to 400°C.



Product Range	
Size (Dia)	Length
8mm -75 mm	Upto 3 meters



Features
• Lightweight and flexible • Resistance from Heat, Oil, Water & Chemical • Operating temperature up to +250°C • Superior thermal protection • Crush resistant • Abrasion protection • Aesthetically highly-engineered appearance

Application
• Power steering hoses • Air conditioning hoses • Heater / Radiator hoses • Fuel lines • Wire assemblies • Brake lines or hoses

Note:-

- ❖ Available in a wide range of sizes, new sizes can be designed upon request
- ❖ Available in tubular and slit form.
- ❖ Available in custom cut lengths.

PRODUCT SUB CATEGORY			
Particulars	AFA	AFA	AF
Inner Layer	Reflective Aluminium	Reflective Aluminium Foil	Reflective Aluminium Foil
Middle Layer	Fiberglass	Reflective Aluminium Foil	
Outer Layer	Reflective Aluminium	Fiberglass	Fiberglass

HEAT REFLECTIVE SLEEVE

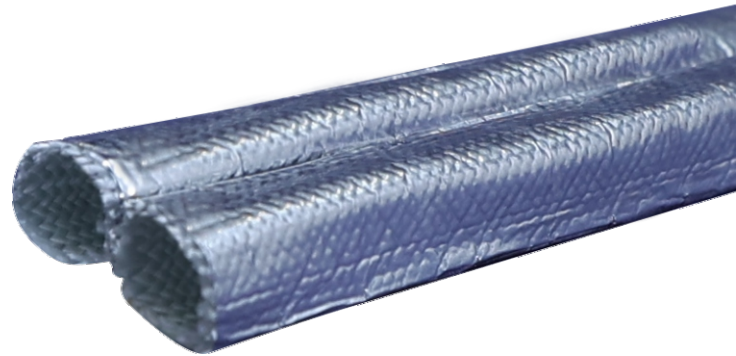
Heat Reflective Sleeve (SAI-HRS) :-

SAI-HRS provides maximum protection for tubings, hoses, wire harnesses and other critical components requiring radiant heat protection.

The special manufacturing process permits our sleeve to boost a virtually seamless ID and non fraying construction. The outer aluminum finish is highly reflective while the inner layer of the fiberglass greatly increases insulating efficiency.

Key Highlights

- Light weight
- Easy installation
- Flexible



Product Range	
Size	Length
8 mm - 20 mm	Available in Cut Length & Rolls

Features
• Provides superior fluid resistance. • Flexible & Easy Installation. • Superior Protection against Radiant Heat.

Application
• AC Lines • Hydraulic & Fuel Lines • Wire Harness • Hoses & Tubes • Control Cables

Construction Characteristics	
Inner Layer	Fiberglass
Outer Layer	Aluminium

ABRASION RESISTANT BRAIDED SLEEVE

Abrasion Resistant Braided Sleeve (SAI-ARBS) :-

SAI-ARBS is made of monofilaments which offers excellent performance of abrasion resistance. It provides smooth, soft surface for application when dragged over the rough surface. The open weave design allows easy installation on bundles of hoses and cables, even when the hoses and cables are bulky or have large connectors. Once fully expanded, our sleeve is expandable up to 1.5 times w.r.t. its original size. It is commonly used to cover cables, wire harnesses, tubes, and industrial hoses that require additional protection.



Product Range	
Size	Length
3 mm - 70 mm	Available in Cut Length & Rolls

Features
• Light weight • Highly flexible • Temp. resistant • Expandable • Wide application range

Application
• Cable Assemblies • Fluid Pipes • Rubber Hoses • Battery Cooling Lines • Air conditioner Hoses • Wire harness • Vacuum Hoses

Technical Data
Material: Polyamide 66 , PET Working temperature: -40°C ~ +160°C Melting point: 240 ± 10°C Color: Black and other colours available on request & availability Cutting tool: Hot knife

PRODUCT SUB CATEGORY	
Part Description	Specification
Flexoshield PN2538	PET Monofilament 0.25 mm & PA66 monofilament 0.38 mm
Flexoshield P25	PET Monofilament 0.25 mm
Flexoshield N38	PA66 monofilament 0.38 mm

Note:-

- ❖ Other materials can be customised based on requirements and availability
- ❖ End dipping is available on request

SELF WRAPPING SLEEVE

Self close - wrapping Sleeve (SAI-SWS) :

SAI-SWS is a non-expandable sleeving woven from monofilament and multifilament polyester yarns. It is noise resistant, lightweight & highly abrasion resistance, the split open design allows easy installation on the cable harness assemblies. It facilitates easy fitment of sleeve even after complete assembly of Hose with larger end fittings.



Product Range	
Size	Length
8 mm - 40 mm	Available in Cut Length & Rolls

Application

- Wire Harness
- Cable Assemblies
- Telecom Sector
- Railway
- Panel Boards

Features

- Noise resistant
- Quick, easy installation and removal
- Light weight
- Allows for inspection and maintenance
- Excellent protection against abrasion
- High surface coverage
- Small range of sizes cover wide range of applications

Technical Data

Material	: Polyester monofilament and multifilament
Operating range	: -40 ~ +150 °C
Melt point	: 200 ± 10°C
Color	: Black
Cutting tool	: Hot knife

ABRASION RESISTANCE TEXTILE SLEEVE

Abrasion Resistance Textile Sleeve (SAI-ARTS):

SAI-ARTS consists of nylon multifilament. This kind of tubular sleeves are uniquely designed and ideal for protecting machinery against any possible hydraulic hose oil leakage or spill. The tight woven construction provide excellent abrasion resistance and high degree of burst resistance.



Product Range	
Size	Length
Suitable for 1/2" to 2" Hose OD	Available in Cut Length & Rolls

Features

Protects Oil leakage & Spillage in Hydraulic Hoses
Reduce injury chances in case of burst in Hydraulic Hose

Application

Widely used to protect Hydraulic Hoses.
Mining Industries
Off Road Vehicles

Technical Data

Material	: Nylon
Working temperature	: -40°C ~ +125°C
Melting point	: 230 ± 10°C
Color	: Black
Cutting tool	: Scissor and hot knife

NYLON TUBE

Nylon Tube (SAI-NT) :-

SAI-NT are fastly replacing steel tubes due to their low weight, flexible and cleaner internal diameter. The tubing has a superior chemical resistance for enhanced service life. Nylon Tube is a reliable solution for demanding applications.

ShiftAir Nylon Tubes have capability to resist various fuels like petrol, diesel, almost all chemicals & corrosion. The material nylon is characterized by a combination of high strength, toughness and abrasion resistance and is ranked as an engineering plastic due to its unique mechanical, thermal, frictional and chemical properties

Size (Dia in mm)		Length
ID	OD	ROLL (IN MTR)
2	4	100
4	6	100
6	8	100
6	9	100
8	10	100
8	11	100
9	12	50, 100
12	15	50
15	18	50
17	20	30
21	24	30



Features

- Superior chemical resistance
- Higher working pressure at high temperature than other material
- High impact strength at low temperatures
- Produced in precise tolerances
- Temperature range from -40°C up to 120 °C

Application

- Robotics
- Machine Tool
- Fuel Lines
- Air brake system
- Industrial Fluid
- Battery Cooling lines

COLORS	:	Opaque, Black (can be customised as per Customer requirement)
Grades Available	:	PA6, PA66, PA610, PA612, PA11, PA12

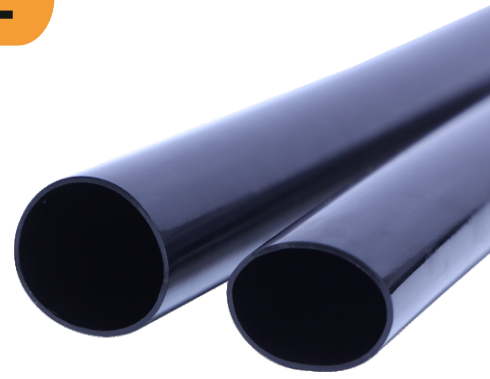
Note:-

- ❖ Our Nylon tubes meets the requirements of DIN 73378 / 74324.
- ❖ Forming / Spooling can be done on part as per customer's requirement.

POLYURETHANE SLEEVE

Polyurethane Sleeve (SAI-PS):-

ShiftAir Polyurethane Sleeves are used to protect surface from wear abrasion and damage. The sleeves can be cut to exact length, allows for product viewing and in most applications it offers superior abrasion and chemical resistance. They have been specially designed to give maximum protection to the various parts as per the need. ShiftAir PU Sleeves are very efficient and are majorly used to provide protection layer of hose and cables for better abrasion, chemical resistance and shock.



Product Range		Application
Size (OD)	Length	• Mining Industry • Earth moving Equipments
4 - 44 mm	Cut Length as per requirement	

Features		Operating range : -40°C - +80°C
• UV Resistant • Better abrasion • Anti corrosive	• Highly flexible	Melting Temp. : 180°C
	• Chemical resistance	Colour : Black (can be customised)
	• Protection against shock	

PLASTIC SPIRAL GUARD

Plastic Spiral Guard (SAI-PSG) :

SAI-PSG is widely used in the protection of hydraulic hoses, pressure pipe and cable products. By installing spiral guard on the product, it comprehensively improves the performance of wear-resistance, insulation, oil resistant and flame retardant, resistance to ultraviolet radiation, thus increases the service life of the product. SAI-PSG is very easy to wrap & It facilitates easy fitment of sleeve even after complete assembly of Hose.



Features	Product Range		Application
• Easy Installation • Fire Retardant (Optional) • Resistant to UV radiation	Size (in mm)		• AC Hoses • Electric Panels • Computer Cables • Hydraulic Hoses
	ID	OD	
	5 ~ 44	7.5 ~ 50	

Technical Data			
Material	Operating Temp	Standard Color	Other Features
Nylon 6 , Nylon 12	-40°C ~ 110°C	Black,White (Can be customised according to customer Requirements)	Oil resistant, Abrasion resistant
HDPE/PP/PE	-40°C ~ 80°C	Black,White (Can be customised according to customer Requirements)	Abrasion resistant

SILICON COATED FIBERGLASS SLEEVE

Silicon Coated Fiberglass Sleeve (SAI-SCFS) :

SAI-SCFS meant for great heat insulation, flame resistance, high dielectric strength & excellent abrasion properties. It is specially designed to protect cables and Hoses exposed to high temperatures and Molten Metal splashes.

Features

- Excellent Protection against high temperature and molten metal splashes
- Save heat loss and result in energy saving
- Moisture Proof, Water Proof, Oil resistant

Technical Data

• Diameter Size	6.5 mm to 130 mm
• Colour	Brick Red
• Thickness	3 mm to 6 mm
• Operating Temperature	260 °C
• Transient Temp.	1650 °C
• Breakdown Voltage	10 kv to 15 kv
• Abrasion Resistance	Excellent
• Packing Size	15 mtr and 30 meter continuous length



RECOIL HOSE ASSEMBLY

RECOIL HOSE ASSEMBLY (SAI-RHA) :

SAI-RHA offers the numerous advantages i.e. Superb elasticity with high flexibility . It has the property of resistance to abrasion & kink along with long durability of the part.

Product Range : Upto 15 mm



Features

- Excellent Elasticity
- High kink resistance
- Light Weight
- Very high flexibility
- Low reduction in flow for all media
- Excellent resistance to abrasion
- High Resistance against moisture

Applications

- Automotive Industry
- Industrial machinery
- Workshop
- Pneumatics
- Motion Technologies
- Robotics
- Tooling
- Compressed Air

Specifications

PU Recoil Hose

Nylon Recoil Hose

Raw Material	TPU Granuels 98 Shore 'A'	PA6, PA11, PA12
Pressure:	0-10 bar	0-16 bar
Temperature:	-20°C to +70°C	-20°C to +90°C
Colours	Transparent / Blue / Customised Req. as per request	Opaque / Black / Customised Req. as per request

HOSE MANDRELS

Hose Mandrels (SAI-HM) :

At ShiftAir, We manufacture mandrels from Nylon , Polypropylene as per our Customer's Individual requirements using a unique & specially developed extrusion process which produces mandrels without voids & with improved long term dimensional stability.

Features

- Specially-selected compounds, chosen specifically for mandrels
- Accurate and consistent diameter for easy mandrel extraction
- No central holes, voids or internal wire (unless desired)
- Long lengths, easily joined
- Types suitable for braided and spiral hose
- Long mandrel life for lower costs



Diameter : 3 – 40mm (1/8" – 1.5"), to customer's own specification

Colour : Natural or colour-coded for easy identification





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