

DESCRIPTION	UOM	SP 500 FR	SP 600 FR	SP 700 FR	Test Method
Type of Duct	Flexible Circular	Flexible Circular			
Dia of Duct	mmc	600 mm to 3000 mm			
Type of Joint	Velcro / Zip / Ring	upon request			
Coating		PVC			
Fabric		Polyester			
Weight	gm/m ²	500+/-20	600+/-20	700+/-20	
Thickness	mm	0.45	0.48	0.52	
Width of Material	m	1.9M, 2.6M, 3.2M, or upon request			
Colour		White/Yellow			
Tensile Strength (Wurf)	N / 5 cm	1800	1800	2600	DIN53354
Tensile Strength (Weft)	N / 5 cm	1700	2500	2500	DIN53354
Tear Strength (Wurf)	N	350	400	600	DIN53363
Tear Strength (Weft)	N	350	600	500	DIN53363
Water proof-ness	@220 psi	No Leak	No Leak	No Leak	
Cold Crack	@ [-] 20°C	No Crack	No Crack	No Crack	
Adhesion	N / 5 cm	120	120	120	DIN53357
Flame Retardant		M2, NFPA 701, DIN 4102-B1 or B2 level			
Temperature Resistance	Degree C	-40 to 100	-40 to 100	-40 to 100	MIL-C-20696
Surface Resistivity-Anti-static(optional)ohm		<300 mega, DIN 54345 PART 1			
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World of Solutions...

Plot No. 10, 1st Floor, Park Avenue Colony, Ameerpet, Hyderabad, Telangana, India – 500016

infospicon@gmail.com, info@spicon.in www.spicon.in

+91 4048554604



VENTILATION DUCT



Under One roof we are providing Complete Ventilation System solution for all type of tunnelling projects i.e. Underground Mining / Road Tunnels / Metro Tunnel / Irrigation Tunnel / Rail Tunnel / Hydro Power Project etc. Ventilation system comprises of Ventilation Fans with Starters (both Force Type & Exhaust type), Ventilation ducts & Coupling Type, Duct Fixing Accessories & Ancillary product & Duct Repairing Kit. Ventilation ducts we are getting manufacturing as per International Standards and Quality.

VENTILATION DUCTING MAINLY DIVIDED IN BELOW SECTIONS / CATEGORY:

A. DUCTING TYPE

- Flexible Ducting For Force Type Ventilation (600 mm Dia to 3000 mm Dia) with different GSM (530/600/700)
- Semi Rigid / Spiral Ducting for Both Force Type Ventilation and (250 mm Dia to 3000 mm Dia)

We can provide Flexible Ducting with Circular / Oval / Elliptical Shape / Twin Duct. We have option of Single Suspension and Double Suspension type Ducting.

We can make as per special specifications can be customized upon customers' request.

KEY FEATURES

1. High strength polyester base cloth with virgin PVC coated on both sides.
2. Stable anti-static (optional): surface resistivity: less than 1×10^8 ohm.
3. Flame retardant (FR grade can meet NFPA701, B1, B2, M2 standard)
4. Superior broken tensile strength and tear strength.
5. Extremely low air leakage rate of a hundred meter.
6. Endure the temperature variation (-30°--70°).
7. More fold-resistant.
8. Low surface resistivity.
9. Environment friendly, no unpleasant odour.

FLEXIBLE DUCTING

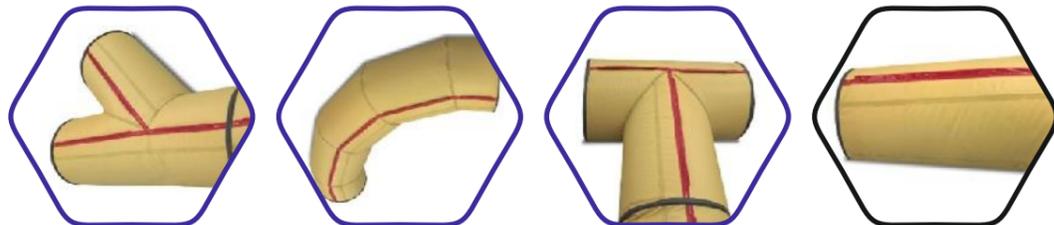
The tunnelling ventilation duct is manufactured of PVC-coated woven fabric designed to ensure excellent tube function under severe conditions. The material is welded in heat sealing machine to form flexible tubes. These features are dramatically decrease the air leakage. The fresh air can reach further into operation tunnel or mining. They are light, flexible, durable, and need less manpower for installation. The diameter range from 250 mm to 3000 mm. Our standard section length is 5 m, 10 m, 20m, 50m & 100 m. Further it can be customisable.

SEMI RIGID DUCTING

The spiral reinforced duct is manufactured of PVC-coated woven fabric with spring steel wire helix. Adopting advanced hot air welding technologies made them more flexible. They can be used as elbows with positive and negative applications. These characteristics make spiral ventilation duct ideal for air ventilation and dust removal in mining, tunnel operation, underground constructions and confined space. The diameter of duct and distance between the spiral wire helix determine the negative pressure. Our duct is offered in range of pitch options from 150mm to 500mm. the diameter of wire can be from 5mm to 10mm.

B. ANCILLARY PRODUCT

The mining and tunnel construction environment is complex. With the help of ancillary duct. The fresh air can reach further into operation tunnel or mining. It will be better for us to provide more comfortable construction environment to working staff. Tee piece. Ye piece. Elbow, Reducer.



C. DUCTING JOINTING TYPE

We can offer duct with Different type of jointing

• STEEL RING TYPE

The tubing is manufactured with spring steel rings at each end. The ring end of one tube is inserted into the ring end of the next length of tubing being installed. This connection provides a secure fit and extended the service life.

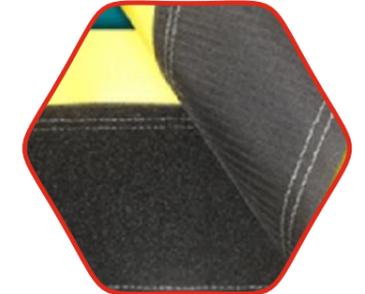


• ZIPPER TYPE

The zipper coupling is made by sewing one side of a zipper assembly to the first duct at a connection point. The second duct contains the coordinating zipper teeth to form a secure female entry and male exit. This is connection is widely used for large diameters, It's convenient for fold and transportation

• VELCRO TYPE

The Velcro connection is mounted on the tube in both ends and is easily connected to the next tube. This type of connection can be used for larger diameter to make handling and connecting easier. It's convenient for fold and transportation. It is strong and can be extended the using life.



D. DUCT FIXING ACCESSORIES

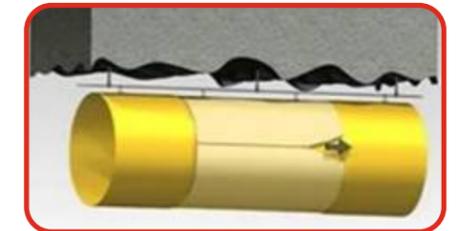
It comprises of Overhead Wire Rope assembly with Bracket, Turn Buckle and Clamp

E. DUCT REPAIRING KIT

We provide after supply service support for Duct repairing Kits. Mainly Comprises of following

REPAIR SLEEVE MENDING & REPAIRING OF DUCT

The Repair Sleeve is a fast and highly effective way for repairing holes and tears of vent ducting. The sleeve is made from a longitudinal zipper for closing the sleeve. The sleeve is made approx. 0.5% smaller than the nominal duct diameter which will allow the sleeve to be really tight against the duct once the duct is pressurized. The standard lengths 1.0, 2.0, 3.0 and 5.0 meter. Other lengths will be manufactured upon request.



REPAIR KIT / HOT AIR GUN WELDER MENDING & REPAIRING

There is still another way to repair the duct---hot air gun. Repairing with the hot air gun is the most professional way to repair the duct. The results are optional durability of a repaired damage and no leakage. When using hot air gun, always have something direct under the area you are repairing! Since it's very hot, so you must be careful when using it and protect yourself.



USE SEWING & GLUE MENDING & REPAIRING

Always have clean and dry fabric to work on, if you sew, use double thread and choose distance between each thread depended on damage. For better results, sew "up and down". This method is for quick repairing and should not be permanent because leakage. For better durability and density use glue after sewing. It is also usually only use glue, when using glue, always have something at the inside to press against until the glue got dry, at the same time you avoid that duct paste together at the inside.

