

fusion[®]



Range of products



A saga written by innovation

Fusion since 2001, has been a pioneer leader in the field of plastic pipes and fittings, FUSION INDUSTRIES LIMITED is one of the largest manufacturer of CPVC, uPVC, PPR, PVC, SWR Pipes & Fittings , Column Pipes, Water Tanks, Electrical Conduit Pipes, Garden Pipes and Water Tanks with the brand name of "fusion".

It has grown many fields since its inception in 2001. Fusion has set up manufacturing units at Roorkee, Utrakhand, Faridabad, Haryana and marketing office at New Delhi.

fusion® offers following products

CPVC PIPE	: IS : 15778:2007
CPVC FITTINGS	: ASTM D 2846
PPRC PIPE	: IS : 15801:2008
PPRC FITTINGS	: AS PER DIN STANDARD
ASTM PIPES	: ASTM D-1785
ASTM FITTINGS	: ASTM D-2467
PVC PIPES	: IS : 4985:2000
PVC AGRI FITTINGS	: IS : 7834:1987
SWR PIPES	: IS : 13592
SWR FITTINGS	: IS : 14735
PVC COLUMN PIPES	
PPRC SUBMERSIBLE PIPES	
ELECTRICAL CONDUIT PIPES:	IS : 9537:1983 (Part 3) & IS : 3419
GARDEN PIPES	
WATER TANKS	
TAFFLON TAPE	



Corporate Office



fusion® is an ISO 9001:2015 certified company. Also its products are ISI Quality certified.

FUSION INDUSTRIES LIMITED is equipped with world's best Battenfeld-German Microprocessor controlled injection moulding machine and fully advanced tool-room and team of highly experienced engineers.

We have complete facilities of Lab to ensure Quality.

Always on the look for new ideas and progress through modernization, diversification and expansion.

FUSION INDUSTRIES LIMITED



Mr. T.C. Chandna
CMD

From the Managing Director's Desk

A cruise of success always entails the qualities of insight, tactic and awareness. All these, along with the power of belief, are imbibed at the nucleus of all our operations. Our brainwave comes from the trust of our stakeholders, customers, suppliers, and shareholders who believe in our potential to deliver world class Plumbing Products.

Fusion has acquired an incredible and diversified presence in Different Plumbing, Agriculture products Like PPRC, PVC, CPVC, uPVC, Fiber Therm Composite pipes and offering Next Generation SWR Pipe – fittings system and Column Pipes. And also developed Electrical Conduit Pipes, Garden Pipes and Water Tanks. New and innovative window of opportunities are opening up and the company is geared up for an exciting future marked with important milestones. At fusion, we are influenced by our rich past to take up projects inhand for the present with an objective to construct the future.

Our commitment, hard work, common sense and determination have helped the company to be at par with multinational companies in terms of standards of performance, safety & quality of products. The journey towards distinction is stirred by what fusion has always done - Deliver superior value and quality services for all those who depend on us, work with us and invest in us.

In the process to take the organization to newer horizons, the chairman is very well supported by the core team of ambitious, enthusiastic and visionary directors Mr. Yunik Chandna and Mr. Karan Chandna. They have been leading dedicated team of professionals who work relentlessly to achieve the milestones in the fast growing organization.

Vision & Mission

Vision-We desire to accomplish business excellence through the highest standard of ethics, assuring the best quality product & services, innovation, productivity and customer satisfaction.

Mission-To provide next generation plumbing and Agricultural products to Indian industries which are sustainable, energy efficient, cost effective and in turn a good life to all people associated with fusion.



CPVC PRO

PIPE & FITTINGS

Raw Material

Kaneka

KANEKA TEKA CORPORATION, JAPAN

Machine

MILACRON, USA



IS:15778:2007



CM/L-4827476



LEADFREE

Complete
COLD & HOT
Water Plumbing Solution



Pipe available in SDR 11 & SDR 13.5

uPVC

PIPES & FITTINGS
(ASTM Standard)



uPVC PLUMBING SYSTEM

Fusion uPVC ASTM-D Pipes & Fittings are an innovatively designed piping system. It has an array of advantages which promise low thermal conductivity, fire resistant, chemical and corrosion free pipes. They are strong, durable and long lasting, cost effective than any other material. Also resistant to weathering environment impact, shock and abrasion.

At Fusion, our endeavour is to continually develop newer, better and more innovative ways to bring you the best of products and solutions, for all your needs. concurring with our philosophy of developing eco-friendly, products for a greener world, we bring you uPVC pipe and fittings - a more eco-friendly, far superior replacement for the widely used GI pipes.

Fusion uPVC can be used upto 60°C (140°F), makes it ideal for cold water applications. Furthermore, it is flexible enough for bending, thereby enabling use in a wide variety of process applications. It is also non-toxic, fire and chemical-resistant, and exhibits a higher impact and tensile strength. In addition, it has excellent resistance towards acids and bases.

ASTM plumbing pipes are manufactured as per ASTM D 1785 and are available in Sch-40 and 80 pressure classes. The pipes are available in a standard length of 3 meters and 6 meters in both plain and threaded ends, Threads are compatible with GI fittings as per IS-554. ASTM threaded pipes are cheaper to conventionally used G.I. pipes.

The maximum continuous service temperature for Fusion PVC-U plumbing pipes is 60°C. The ASTM Pipes' abrasion resistance, light weight, mechanical strength, toughness and durability are the key reasons for it's used in construction and building applications.

PPRC

PIPES & FITTINGS

India's **1st**  PPR-C Pipe
IS:15801:2008
GML-3037038

Advantages :

- Health : Hygienic and low bacterial growth
- High durability with minimum 50 years of life span
- High Flow : Smooth interior surface results no friction
- giving high flow
- Taste and odour neutral
- Heat preservation and energy saving
- Resistant to high temperature (95°)



Available in White, Green & Grey colour

PVC-U

PIPES & FITTINGS

IS:4985 : 2000



CM/L-2582664



AGRICULTURE PIPES

PVC PRESSURE PIPING SYSTEM

For Potable Water Supply



IS:7834 : 1987



CM/L-2591160



PIPES & FITTINGS

IS:13592-2013



CML-8300128814
PIPES

IS:14735



CML-8300134211
FITTINGS

Fusion SWR PVC-U Pipes & Fittings are light weight, therefore are easy in handling and installation. The pipes are of high quality and can withstand any drastic climatic conditions. They are highly durable and do not age with time. Its varied applications add to its advantage.

Fusion SWR PVC-U Pipes & Fittings are manufactured from highly selective source of 'Virgin' raw material, at our ultra modern plant equipped with the latest machineries with high-end technology and precision.

Our on-line quality checks ensures consistent quality products at utmost competitive price. The near polish smooth finish of the inside surface ensure optimum flow characteristics & eliminates the problem of clogging or choke-up of the drain.

Fusion SWR PVC-U Pipes & Fittings are made in four different sizes 75 mm, 90 mm, 110 mm & 160 mm in Self-Fit and Ring-Fit for varied applications.

Right from the inherent properties of PVC-U to a virtual lifetime of trouble-free performance, 'FUSION' SWR piping system is far more superior to all other conventional drainage systems.

Corrosion Resistant : PVC-U material is unaffected by most of the chemicals & is rustproof, durable and has superior mechanical properties. Also, it remains unharmed by insects or rodents.

Fire Resistant : PVC-U is self-extinguishing and no special precautions are necessary during installation.

Smoothness : Smooth inside surface ensure effective discharge, high flow rate and eliminates clogging and choking.

Light weight : Easy to transport & handle.

Easy to install : Easy to install & less time is consumed than other conventional piping system.

Strength : Strong with high impact strength can with stand rough handling.

Easy to maintain : Smooth inside bore and threaded door caps provide ease of inspection and cleaning.

Durability : No scale formation.

Low-cost : Economical in every way. All these advantages add up to significant cost reductions.

FEATURES



Light Weight



UV Resistant



Leak Proof Joints



Yellow Ring Co-Moulded
Technology

APPLICATIONS



Sewage & Waste
Water Lines



Rainwater Drainage



Residential Purpose



Industrial Use



Offices



COLUMN PIPES

fusion[®]
PIPES-FITTINGS & WATER TANKS

Fusion Column Pipes are meticulously designed for bore well submersible pumps. The properties and advantages of column pipe have enabled them to replace the galvanized steel pipes for column applications.

Our high performance Column Pipes are most preferred amongst the widely used uPVC Column Pipes application.

Fusion pipes blend the combination of technology and quality that guarantees trouble free performance, Stringent quality check is done at every stage of production that ensures the highest standard which forms the hall mark of Fusion uPVC Column Pipes quality.

Fusion brings best-in-class expertise and unrivalled passion for customer satisfaction. Fusion's portfolio represent one of the most extensive product range.

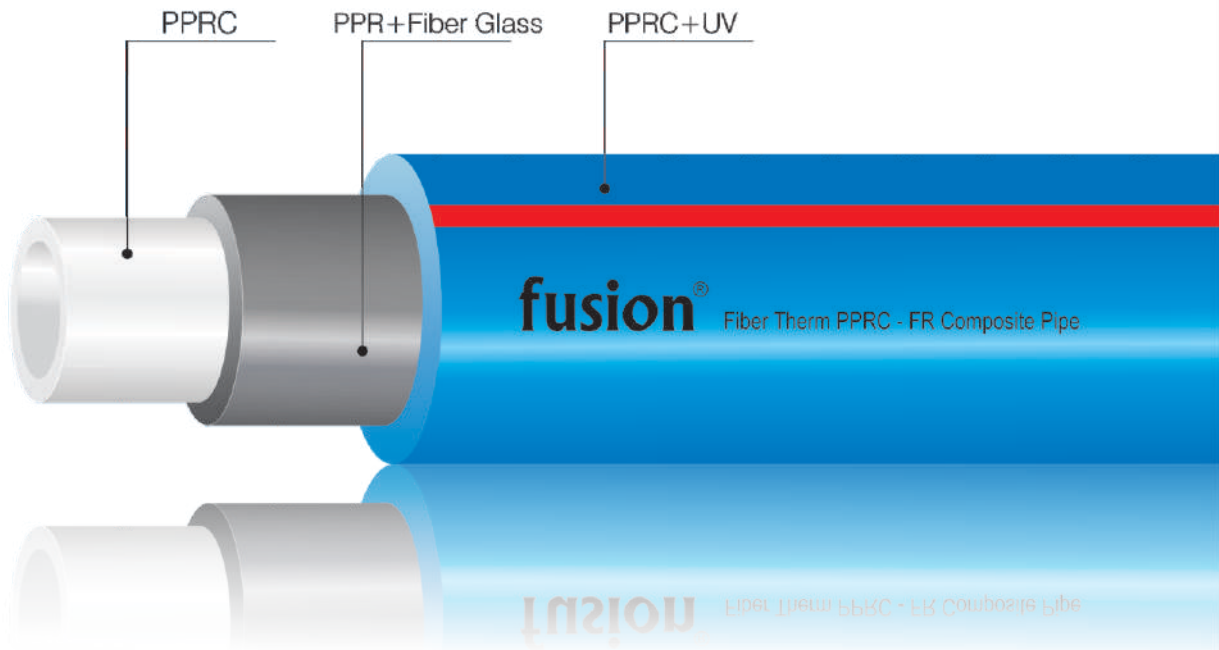
- Wide range of V4-15, Medium, Standard & Super Heavy depending on depth of bore and pump pressure & heavy pipes are available.
- Committed to After-Sales-Service.
- All India dealers Network.



FIBERTHERM

PPRC-FR Composite Pipe

fusion[®]
PIPES-FITTINGS & WATER TANKS



fusion[®] **FIBERTHERM** PPRC - FR **Blue** Composite Pipe

Applications :

- Compressed Air
- Pneumatic Control
- Instrumental Line
- Vacuum Line
- Nitrogen Air Line

fusion[®] **FIBERTHERM**

Unique 3 layer Pipe reinforced with glass fiber, made from the next generation PPRC-FR Composite, An unrivalled Product

fusion[®]

WATER STORAGE TANK

THE NEW
GOLD STANDARD
OF ROTO MOULD
WATER TANK



MOLD TANK

Available in 550 Ltrs. to 2000 Ltrs.



Most trusted name - think of quality think of "fusion"

If you want a reliable and high-quality PVC garden pipe, Fusion is the brand for you.

Fusion garden pipes are developed using premium-grade materials and cutting-edge technologies, ensuring that they are durable, flexible, easy to use, and promise to be of the highest Quality.

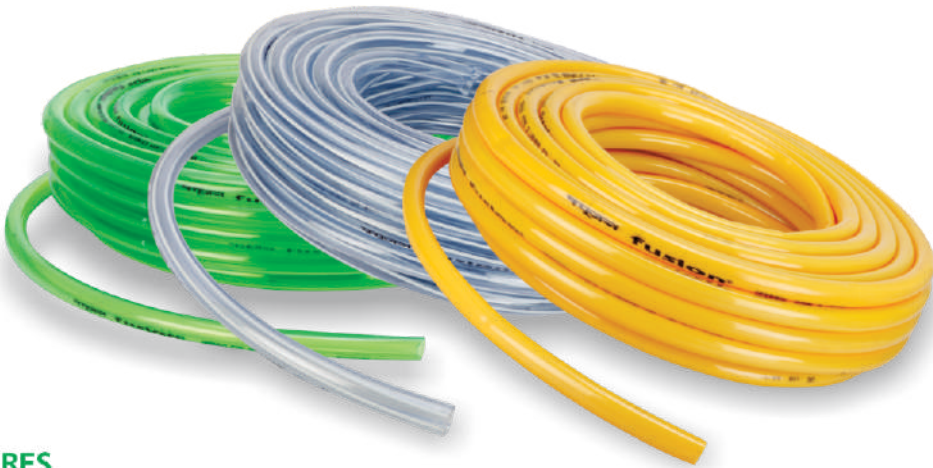
Fusion garden Pipes are known for their widespread use to flush out the water for all gardening and landscaping purposes.

Fusion Garden Pipes are made as per European Union Guidelines on non-hazardous substances & RoHS Compliant; Our Garden Pipes are free from any kind of heavy metals and are eco friendly. They are built to withstand all weather conditions. Moreover, without melting or getting stiff, our Garden Pipe does not damage or twist, has no oiliness on the surface in high-temperature conditions, and is immune to all types of tangles or cracks regardless of the fact whether kept unused or used regularly.

The high-quality pigments used in these garden pipes are non-carcinogenic, which means they are not made using any chemicals that result in danger in humans.

Fusion Garden Pipes also prevent the colours from fading and the translucence of the pipes prevents any algae or fungus formation.

Fusion pipes are UV resistant.



FEATURES

Features and benefits of Fusion Garden Pipes :

- **High Strength:** Fusion garden pipes are designed to be strong and durable, making them an excellent choice for any watering task.
- **Dimensional Accuracy :** The garden pipes are precisely manufactured to ensure that they fit securely and accurately with your faucet or other water sources.
- **Crack-Less and Leak-Proof:** Fusion garden pipes are designed to be leak-proof, so you can use them without worrying about water wastage. They are also crack-less, which means they will not develop cracks even with prolonged use.
- **High Flexibility :** Fusion garden pipes are flexible, making them easy to manoeuvre and use. They will not kink or tangle, ensuring that you have an uninterrupted water flow.
- **UV Stabilized :** Fusion garden pipes are UV stabilized, ensuring that they can withstand prolonged exposure to the sun without becoming brittle or discoloured.
- **Competitive Prices:** Fusion garden pipe prices are highly competitive compared to other reputable branded garden hose pipes, making them an affordable option for all.

SALIENT FEATURES



Flexible



Long Term
Protection



Long Lasting



Leak proof

Technical Parameters :

INNER DIAMETER (ID)

Size (Inch)	Size (mm)	Wall Thickness (mm)
1/2"	12	2.2
3/4"	19	2.6
1"	25	2.9
1 1/4"	32	3.2
1 1/2"	38	4.2

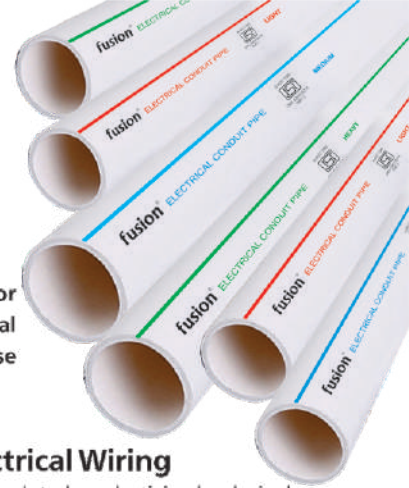
APPLICATIONS :

- Garden pipes are commonly used to transport water for gardening, lawn care, and other landscaping purposes.
- They are also used for outdoor cleaning of items such as vehicles, equipments, building exteriors and animals.

Choosing **Fusion** PVC garden pipe will help you achieve a hassle-free gardening experience. The pipes are available in a variety of sizes 1/2 inch to 2 inches and colours, allowing you to find one that fits your specific needs.



think of **QUALITY** think of **fusion**[®]



Fusion Electrical Wire Shield

ENSURE TOTAL PROTECTION OF YOUR WIRES & CABLES

Thinking of building a new residential, commercial, industrial building or renovating the house and looking for the right conduit pipe for your electrical wires? Get your hands on Fusion Wire Shield PVC electrical conduit pipes. Because we are known for quality, trust, guarantee & approved products. "think of quality think of fusion"

Wire Shield, PVC Conduit Pipes for Concealed and open electrical Wiring

Fusion Electrical Conduit PVC Pipes & Fittings are manufactured from a specially formulated unplasticised polyvinyl chloride (uPVC) to meet the most stringent Indian and International standards. Our products are made of Extra Super High Impact materials which make them safe for use in harsh environments. The products are manufactured in accordance with IS: 9537 Part 3 for PVC conduits pipes, IS: 3419 for PVC conduit fittings.

Fusion Wire Shield conduit pipes and fittings have good impact strength, low conductivity and chemical resistance. They have high heat deflection temperature and ductile behaviour even at low temperatures.

Fusion Wire Shield conduit pipes are available in three different wall thicknesses with the thin-wall variety being suitable for embedded use in concrete and heavier grades suitable for direct burial and exposed work.

Fusion Wire Shield conduit pipes and fittings resist moisture and most corrosive substances. Joints to fittings are made with slip-on solvent welded connections, which stick rapidly on assembling and attain full strength in about a few hours.

Our conduits are 100% Unplasticised - Which means that these conduits can with stand prolonged exposure to sunlight and heat without loss of strength or shape. This ensures that the conduits have a long service life. This unplasticised nature makes our conduits non-supporter of combustion. In the unfortunate event of a short circuit - this characteristic greatly reduces the spread of fire. We manufacture all sizes of conduits from 20mm to 63mm in light, medium and heavy mechanical strength.

- Minimum filters used
- Unplasticised PVC formulation
- Adaptable to Standard concealed wiring system as per IS: & BS: 3419.

Dimensions

S. No.	Normal Size (in mm)	Max. O.D. (in mm)	Min. O.D. (in mm)	Minimum Internal Diameter		
				Light Mechanical Strength (in mm)	Medium Mechanical Strength (in mm)	Heavy Mechanical Strength (in mm)
1	20	20	19.70	17.40	16.90	15.80
2	25	25	24.60	22.10	21.40	20.60
3	32	32	31.60	28.60	27.80	26.60
4	40	40	39.60	35.80	35.40	34.40
5	50	50	49.50	45.10	44.30	43.20
6	63	63	62.40	57.00	---	---

CONDUIT PIPE FITTINGS





Impact Testing



Compression Testing for Mechanical Strength



Bend Test at Zero Degree Temp. & at Ambient Temp.



TECHNICAL DATA

Mechanical Properties

- Percentage of Compression with specified load less than 25%
- Percentage of Compression without load less than 10%
- High Impact Strength
- Tensile Strength - 390-420 Kg/cm²

Electrical Properties

- Dielectrical Strength = 36 Kv/mm
- Specific resistance = 6.1×10^{14} ohm cm
- Electric Strength = No breakdown at 2 Kv x 50 hz. for 15 minutes

Thermal Properties

- Working Temp. = 70°C
- Burning rate = Self Extinguishing
- Flammability = UL94V-0
- Flame Die out Time = Less than 30 seconds

Why Fusion Wire Shield:

When it comes to electrical pipes, Fusion Wire Shield is the best PVC Electrical Conduit Pipe in India.

They are made to give best protection to your electrical cables. Manufactured under great supervision, Fusion Wire Shield conduit pipes pass all parameters required for an electrical pipe to be claimed "high quality".

Fusion Wire Shield conduit pipes can be used for Residential, Commercial and Industrial and Utility functions. These electrical pipes are versatile and can be used in a variety of areas and specially outdoors as they are waterproof, easy to install and most importantly light weight.

SALIENT FEATURES



Corrosion Resistant



High Strength



Fire Resistant



Maintenance Free



Easy Installation



Non Conductive



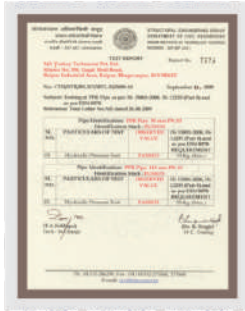
High Quality Raw Material



UV Stabilised

think of **QUALITY** think of **fusion**[®]

Certificates & Appreciations



IIT Roorkee - Pressure Test



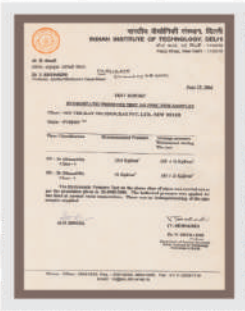
ISO Certificate



M.P. Housing Approval



Rajpur Development Authority Approval



IIT Delhi - Pressure Test



Haryana Govt. Approval (Agri.)



CIPET - Temp. Test



CSIR Certificate



SHRIRAM - Food Grade



MES - Approval



BIS-License



Northern Railway - Approval

Cientele :



& many more.....

think of **QUALITY** think of **fusion**[®]

Thank you