

JINDAL MLCPIPES®

PRODUCT
CATALOGUE



IS:15450



Multi-Layer Composite Pipe and Fittings (PE-AL-PE)
www.jindaltubes.com

JINDALTUBES
A Unit of D.S. Jindal Group

JINDAL TUBES

INSPIRING INNOVATION



Jindal Tubes, a pioneering force in the plumbing pipe manufacturing industry. As a vital part of the renowned DS Jindal Group, our foundation was laid by visionary entrepreneur Arvind Jindal, with a mission to transform India's plumbing landscape through innovation and technology. Inspired by our tagline, "Inspiring innovation," we embarked on a journey to revolutionize the Indian piping systems by introducing German-engineered Multi-Layer Composite Pipes (PE-AL-PE Pipes) to the market, a concept previously unexplored in our country.

Our inception marked the beginning of a new era in plumbing solutions, blending quality, efficiency, and technological advancement. The introduction of these high-caliber pipes not only set us apart but also paved the way for a growing market that continues to welcome new entrants each year. At Jindal Tubes, our commitment goes beyond just manufacturing. We aim to lead the charge in innovation, ensuring that we continually bring high-quality products that redefine the plumbing systems in India.

Jindal MLC Pipes and fittings are manufactured with the latest german technology at our state of the art facility in Dehradun, Uttarakhand, India




At Jindal Tubes we subject our products to regular inspections and long-term testing. Our in-house laboratory keeps material specifications and long-term properties under constant scrutiny. This provides the necessary foundation for product enhancements performed within our Research and Development department.

As a result you will always be supplied with the highest possible quality and latest technology in the plumbing and piping system. Our range of polymer fittings is specifically designed for Indian plumbing techniques.

JINDAL MULTI-LAYER COMPOSITE PIPE (PE-AL-PE)

Jindal MLC Pipes combine the advantages of metal and plastic pipes and eliminate the disadvantages of both materials at the same time. The aluminium core is absolutely diffusion tight and reliably prevents oxygen or gases from permeating into the pipe. It compensates and reduces snap-back forces and heat expansion with changes in temperature.

SIZE RANGE	COIL LENGTH
16mm	200 mtr
20mm	200 mtr
25mm	100 mtr
32mm	100 mtr
40mm	100 mtr
50mm	50 mtr

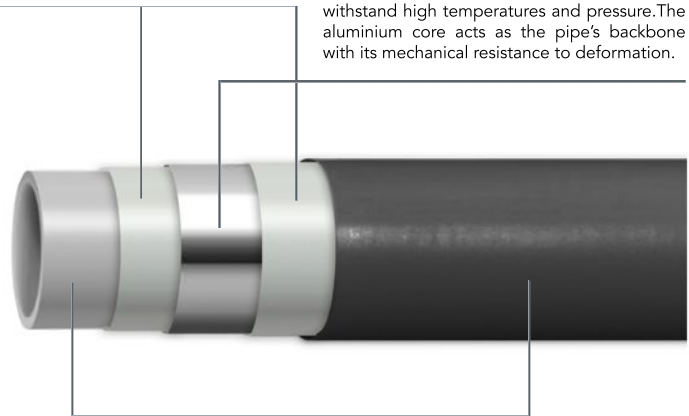


Adhesive Layers

The adhesive layer perfectly bonds the polyethylene and aluminium layers and absorbs the eventual shifting movements between the layers.

Aluminium Core

The aluminium core stays where it lays and has high mechanical strength. It has the ability to withstand high temperatures and pressure. The aluminium core acts as the pipe's backbone with its mechanical resistance to deformation.



Internal & External Polyethylene Layers

The Polyethylene layers are lightweight, flexible and chemically inert. It Provides a smooth surface for better flow and is a food grade material.



JOINT-FREE PIPING SYSTEM
Available in coils of upto 200 Mtrs

JINDAL



50 Years of working life



Hygienic, Toxic free, Rust free and no growth of micro-organisms



30% more flow of fluid than in metal pipes



Easily bendable never springs back



Easy installation and wide range of usage



Light in weight, easy to carry and store



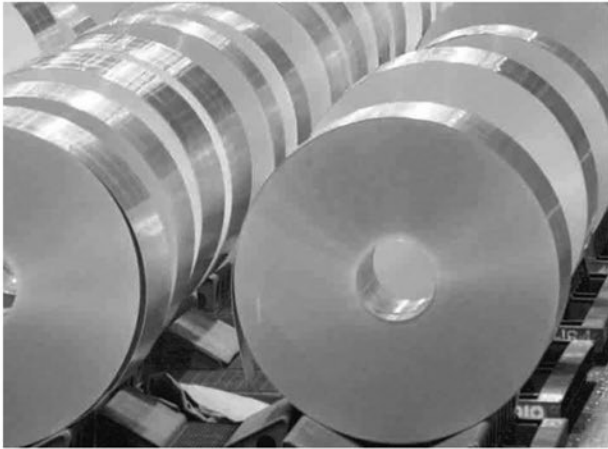
Low expansion and contraction



Quite flow



Fire retardant



Raw Material - ALUMINIUM

Aluminum is a soft, lightweight, non-toxic and malleable metal with appearance ranging from silvery to dull gray depending on surface roughness. Aluminum alloys have yield strengths ranging from 200 mpa to 600 mpa. For Jindal MLC Pipes, a specialized grade of Aluminum is used which is manufactured specifically for these pipes and have the right balance of strength and flexibility as required for bending applications.

1 MPa = 145 psi = 10 bar = 10kg

SPECIFICATION (mm)	BURST PRESSURE (MPa)	PIPE RING STRENGTH (N)	HYDROSTATIC STRENGTH (MPa)	WORKING TEMPERATURE (°C)		WORKING PRESSURE (MPa)
				PIPE UV	PIPE PERT	
1216	6.0	2300	2.7	-20° ~ 80°	-20° ~ 95°	1.0
1620	5.0	2500	2.7			
2025	4.0	2500	2.3			
2532	4.0	2700	2.1			
3240	4.0	3200	2.1			
4050	3.8	3500	2.0			

THERMAL CONDUCTIVITY : 0.45W/m.k. - about 1/100 of steel pipe but not only several times higher than that of insulating materials. No need of insulation with Jindal Hot Water MLC pipes. Jindal MLC Pipes have an extremely low co-efficient of linear expansion 25×10^{-6} m/m.k., Only 1/8th of all polyethylene pipes, almost same as that of aluminum pipes.

Raw Material - POLYETHYLENE

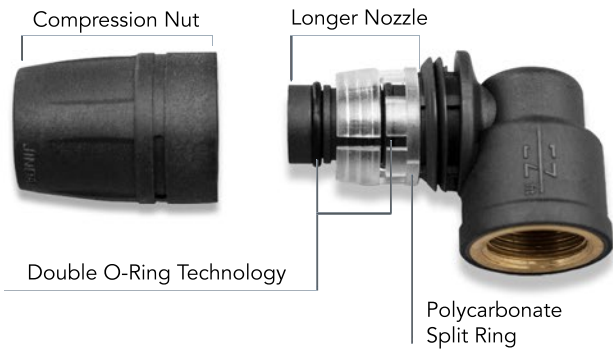
Polyethylene or PE is a polymer consisting of long chains of the monomer ethylene. It is created through the polymerization of ethene and is classified into different types based on Density. High Density Polyethylene or HDPE is used to manufacture Jindal MLC Pipes. It has a low degree of branching and thus stronger inter- molecular forces and tensile strength. The HDPE used in Jindal MLC Pipes is food grade and hence hygienic.



JINDAL EZ-FIT COMPRESSION FITTINGS

EZ Fittings combine the positive feature of high reliability with a simple installation technique that does not require any special tools. The permanent pipe joint is achieved by compression i.e. tightening the nut against the tapered split ring. The profiles of the two pieces are designed to cause a progressive shrinkage of the split ring and to distribute the compression forces across the contact surface. A seal housing has been designed with a special slip-proof profile called O-Rings that come into direct contact with the pipe





EZ Fittings are made from high quality engineering Nylon using advance injection moulding that makes it extremely reliable and reluctant to leakages. The fittings are rigid and lightweight at the same time.

The simplicity and economic aspect of this system is based on the use of spanners, standardised threads, which make it possible to connect with any system.

EZ Fittings come in 3 Categories as listed below:



EZ-FIT

- Full Plastic component
- Developed with advanced injection moulding
- Lightweight & Economical
- Removable and Reusable
- Quick and simple installation



EZ-HYBRID

- Brass Male thread with Plastic Nozzle
- Hybrid Technology
- Strength of Brass combined with the cost effectiveness of plastic
- Removable and Reusable
- Quick and simple installation



EZ-BRASS

- Full Brass Body
- Plastic Compression Nut and Split ring
- Superior Strength
- Removable and Reusable
- Quick and simple installation



View Complete Product range here



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