



IS 4984-2016

SAVE THE WATER

  
**TITAN PIPES**

*Built To Last, Pipes You Can Trust*



[www.titanpipes.in](http://www.titanpipes.in)



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## WHO WE ARE

We pride ourselves on being a pioneer in the manufacturing and supply of High-Density Polyethylene (HDPE) products a trusted name synonymous with innovation, quality, and reliability. For over **25 years**, we have been at the forefront of delivering cutting-edge solutions tailored to meet the diverse needs of the construction, agriculture, and infrastructure sectors.

**TITAN PIPES** continues to set new benchmarks in the industry.



# OUR MISSION

At TITAN PIPES, our mission is to deliver the highest-quality HDPE products, crafted with precision and a strong commitment to environmental responsibility. We aim to advance the use of durable, cost-effective, and eco-friendly materials across diverse applications. By prioritizing safety, quality, and sustainability, we strive to provide solutions that exceed customer expectations and contribute to a better future.

## WHY TITAN PIPES HDPE

- Manufactured using 100% virgin raw materials, including PE 63, PE 80, and PE 100.
- Does not impart any odor or toxicity to the liquid being transported, ensuring safety and purity.
- Possesses advanced properties such as UV resistance, corrosion resistance, non-toxicity, chemical inertness, low thermal conductivity, and high electrical resistance.
- Flexible in nature with excellent resistance to abrasion and weather conditions.
- Features an exceptionally smooth internal surface, enabling higher flow rates and reducing frictional losses.

**PE63**

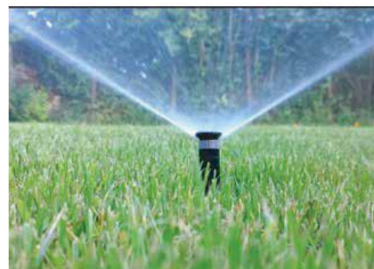
Pipe coating ,Steel pipe lining and Sub-Marine Cables, PE-63 pressure pipes for agriculture and Sprinkler pipes

**PE80**

Pipes for water supply ,Civil engineering ,Drainage , Water Heater ,Chemicals and Large diameter irrigation pipes

**PE100**

Large diameter pipes , High pressure pipes for agricultural, Sewerage / Drainage pipes and Water pipes





# QUALITY ASSURANCE



**TITAN PIPES** conducts stringent quality checks at each stage of manufacturing. These checks are designed to ensure that only the best quality products reach the customer. From raw material inspection to final product testing, every step is carefully monitored. Our dedication to quality guarantees consistent performance and customer satisfaction.

- Dimensional check
- Internal pressure creep rupture test
- Longitudinal reversion
- Carbon black content & dispersion
- Melt flow rate
- Oxidation induction time
- Overall migration
- Density
- Tensile strength
- Elongation at break
- Slow crack growth rate

"We are adhering to BIS (**Bureau of Indian Standards**) norms to ensure that our HDPE pipes meet established quality standards."

Size Range (O.D)	20 mm to 110 mm
Material Grade	PE 63, PE 80 & PE 100
Pressure Class	2 Kg/cm <sup>2</sup> to 12.5 Kg/cm <sup>2</sup>
Standard Dimension Ratio	SDR 41, SDR 33, SDR 26, SDR 21, SDR 17, SDR 13.6, SDR 11.
Colour	Black with Blue strips
Working Temperature	-40° C to 45° C
Availability	Coils up to 110mm





# BUTT-WELDING

Butt - welding is used for Polyethylene pipe jointing. This is the most widely accepted method and it is highly economical and simple. In this process the preheated pipes and / or fittings are joined under controlled pressure and temperature conditions. Some of the fittings e.g. bend, tee of large diameters are also fabricated by this process. A trained and skilled pipe welder should be engaged for the job. HDPE pipe welding uses a welding machine. In butt welding, fusion areas i.e. pipe or fitting ends are heated and joined by mechanical pressure. Procedure:

- **Cleaning** – Clean the pipe, fitting surfaces and heating plate.
- **Alignment** – Surfaces of the joining parts should be checked for alignment and matching.
- **Heating** – The machine shall be equipped with a thermometer or other built-in temperature-measuring device. Once the fusion temperature is attained, position the heating plate in the butt welding machine.
- **Apply Pressure** – Press the pipe or fitting surfaces against the heating element with the required force until the entire circumference of each of the joining faces rests completely against it and a bead is formed.
- **Joining** - After the recommended heating time, remove the heating element and push the heated pipe ends together immediately with pressure to form a joint.
- **Cooling** – Allow the recommended cooling time as per the pipe size to get the required strength.



# OPTIMIZING HDPE PIPE HANDLING AND STORAGE

- **Personal Protective Equipment (PPE):** Workers are required to wear appropriate personal protective equipment (PPE) and must be fully cognizant of the potential hazards associated with the task at hand and the work environment when handling HDPE pipes.
- **Use of Power Equipment:** It is recommended to utilize power equipment for the safe lifting and handling of pipes with a diameter greater than 8 inches to reduce the risk of injury and ensure efficient handling.
- **Avoiding Pipe Damage:** To prevent damage, pipes and coils should not be dragged over uneven terrain or dropped from heights onto sharp objects. Such practices may lead to deformation or integrity issues with the material.
- **Handling Damaged Pipes:** If a pipe is found to be damaged or "kinked" due to improper storage or handling, the affected section must be completely removed to maintain the structural integrity of the pipeline.
- **Cold Weather Considerations:** HDPE material is less susceptible to low temperatures compared to other plastic materials. As such, no additional precautions are necessary when handling HDPE pipes during colder weather conditions.
- **Storage Area Requirements:** The storage area should be designed to protect the components from physical damage and be sufficiently spacious to accommodate piping materials, while also allowing for the safe and unobstructed movement of handling equipment.

## PRICE LIST FOR TITAN PIPES HDPE

### GRADE- PE 63

SIZE	INCHES	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11
		PN 2	PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8
20MM	1/2"							37
25MM	3/4"						46	54
32MM	1"					59	72	85
40MM	1 1/4"				76	92	112	137
50MM	1 1/2"			101	116	143	175	215
63MM	2"			152	175	216	266	289
75MM	2 1/2"	140	164	207	254	311	376	452
90MM	3"	190	242	299	356	432	540	642
110MM	4"	289	350	438	595	683	799	948

### GRADE- PE 80

SIZE	INCHES	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11
		PN 2.5	PN 3.2	PN 4	PN 5	PN 6	PN 8	PN 10
20MM	1/2"							37
25MM	3/4"						46	54
32MM	1"					59	72	85
40MM	1 1/4"				76	92	112	137
50MM	1 1/2"			101	116	143	175	215
63MM	2"			152	175	216	266	289
75MM	2 1/2"	140	164	207	254	311	376	452
90MM	3"	190	242	299	356	432	540	642
110MM	4"	289	350	438	595	683	799	948



## GRADE- PE 100

SIZE	INCHES	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11
		PN 3	PN 4	PN 5	PN 6	PN 8	PN 10	PN 12.5
20MM	1/2"							37
25MM	3/4"						46	54
32MM	1"					59	74	87
40MM	1 1/4"				77	93	115	139
50MM	1 1/2"			101	118	145	178	217
63MM	2"			152	177	218	269	292
75MM	2 1/2"	140	164	207	256	313	379	455
90MM	3"	190	242	299	359	437	544	648
110MM	4"	289	350	438	596	685	801	954

DISCOUNT.....

*Build to Last, Pipes You Can Trust.*

### TERMS & CONDITIONS

- Inclusive of 18% GST
- Forwarding Charges Extra
- Prices are subject to change without prior notice.





**Contact Details:**

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**Our team is here to assist with any questions or specific requirements you may have.**