

## 3LPE STEEL PIPE

**3PP steel pipes** are corrosion-resistant pipes coated with three layers of polypropylene, including epoxy primer, adhesive copolymer, and polypropylene top layer. The system has excellent resistance to mechanical damage, chemical corrosion and high temperatures (up to 110°C). It is mainly used in harsh environments such as subsea pipelines, chemical transportation, and high-temperature industrial applications, extending pipeline life to 30-50 years while reducing maintenance costs. The coating is applied by automatic electrostatic spraying, and each layer is subject to strict quality control.



- **Outside Diameter:**  $\Phi 60\text{mm} - 3000\text{mm}$  (2" - 118")
- **Wall Thickness:** 5.0 - 40mm (0.2"-1.6")
- **Quality Standards:** ISO 21809-3, CSA Z245.21, DIN 30678, NACE RP0185
- **Length:** 6 - 12.5m(20"-40")
- **Coating:** 3PP (3-Layer Polypropylene) or customized solutions



# Specification

Category	Parameter	FBE Steel Pipe	3PE Steel Pipe	3PP Steel Pipe
Basic Specs	OD (mm/in)	60-3000 (2"-118")	60-3000 (2"-118")	60-3000 (2"-118")
	Wall Thickness (mm)	5.0-40	6.0-45	6.0-45
	Length (m/ft)	6-18 (20'-60')	6-18 (20'-60')	6-18 (20'-60')
	Coating Color	Green/Beige/Custom	Black (Std)	Yellow/Custom
	Temp. Range (°C)	-40~100 (150° C DL*)	-40~80	-40~140
Coating Structure	Base Layer	FBE Primer	FBE Primer	FBE Primer
	Intermediate Layer	N/A	Copolymer Adhesive	Copolymer Adhesive
	Top Layer	N/A	Polyethylene (2-4mm)	Polypropylene (2-4mm)
Certifications	Intl. Standards	ISO 21809-2 CSA Z245.20	ISO 21809-1 DIN 30670	ISO 21809-3 GB/T 23257
	Special Certs	NSF/61 (Potable Water)	-	-
Performance	Cathodic Compatibility	Excellent	Good	Excellent
	Abrasion Resistance	Moderate	Good	Superior
	Chemical Resistance	Good	Moderate	Superior
Packaging	End Protectors	Beveled/Plain End Caps	Same as FBE	Same as FBE
	Interlayer Padding	Specialty Spacers	Reinforced Spacers	Reinforced Spacers
	Max. Stack Height	3.5m	3.0m	3.0m
Commercial Terms	Delivery Time	30-60 days	45-75 days	45-75 days
	Payment Terms	30% Deposit 70% Pre-ship	Same as FBE	Same as FBE
	20'GP Container Loading	28 MT	25 MT	25 MT





# production process

