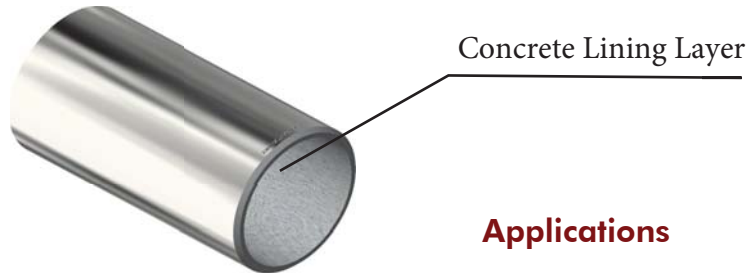


Concrete Lined ductile Iron Pipe

(PC, SR, HAL) Concrete Lined pipe



Product Description

The concrete lining of the pipe can be Portland cement lining, Sulfate resistant Cement used for the transportation of potable water or for irrigation, in addition to High Alumina Cement lining which is abrasion resistant and used for sewage water and the industrial water.

Applications

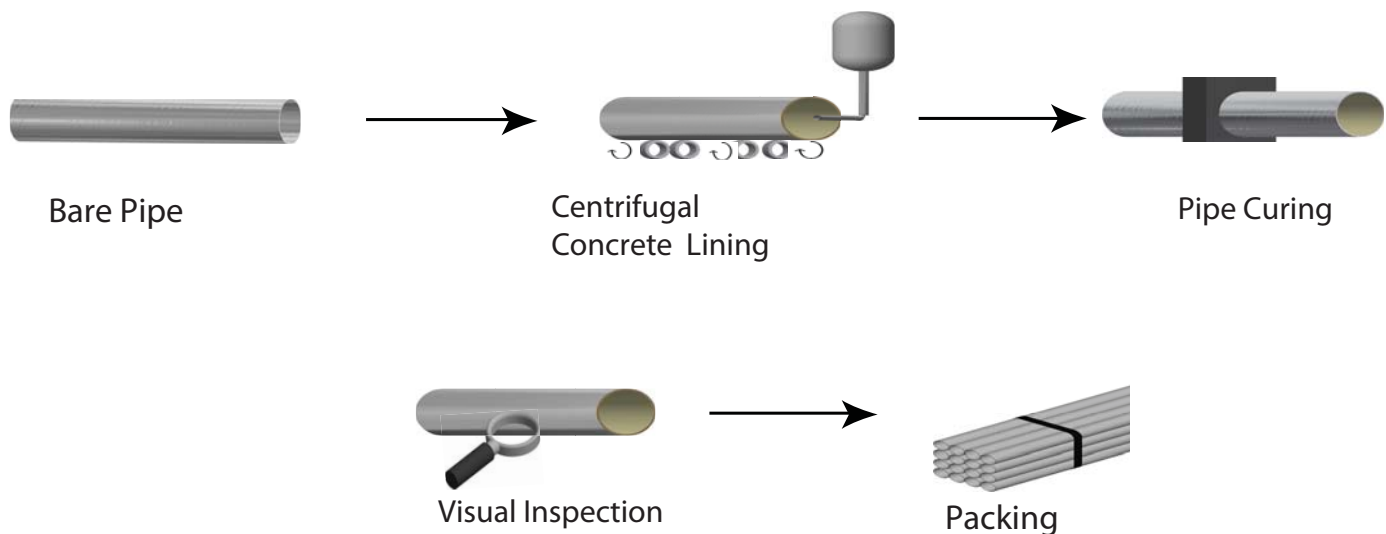


Related Standards and Specifications

- BS EN 4179
- DIN 2614
- BS EN 545
- ANS/AWWA C104/A21.4

Additional standards may also apply after contacting an Insupipe sales agent

Process Flowchart Concrete Lining



Contact us

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www.gsest.com
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Concrete Lined Ductile Iron Pipe **INSUPIPE**

PRODUCT DATA SHEET

Thickness					
Type of Cement	Application	Standard	Nominal Pipe Size DN	Lining Thickness	Tolerance
Sulphate Resistant Cement	Potable Water/ Irrigation	ISO 4179	80 to 300 (mm)	4 mm	-1.5 mm
		BS EN 545	350 to 600 (mm)	5 mm	-2 mm
		DIN 2614	700 to 1200 (mm)	6 mm	-2.5 mm
		ANS/AWWA C104/A21.4	1400 to 2000 (mm)	9 mm	-3 mm
			2200 to 2600 (mm)	12 mm	-5 mm
Portland Cement	Potable Water/ Irrigation	ISO 4179	80 to 300 (mm)	4 mm	-1.5 mm
		BS EN 545	350 to 600 (mm)	5 mm	-2 mm
		DIN 2614	700 to 1200 (mm)	6 mm	-2.5 mm
		ANS/AWWA C104/A21.4	1400 to 2000 (mm)	9 mm	-3 mm
		BS EN 197-1	2200 to 2600 (mm)	12 mm	-5 mm
Blast Furnace Slag Cement	Potable Water/ Irrigation	ISO 4179	80 to 300 (mm)	4 mm	-1.5 mm
		BS EN 545	350 to 600 (mm)	5 mm	-2 mm
		DIN 2614	700 to 1200 (mm)	6 mm	-2.5 mm
		ANS/AWWA C104/A21.4	1400 to 2000 (mm)	9 mm	-3 mm
		BS EN 197-1	2200 to 2600 (mm)	12 mm	-5 mm
High Alumina Cement (HAC)	Sewage Water/ Industrial	ISO 4179	80 to 300 (mm)	4 mm	-1.5 mm
		BS EN 598	350 to 600 (mm)	5 mm	-2 mm
		DIN 2614	700 to 1200 (mm)	6 mm	-2.5 mm
		ANS/AWWA C104/A21.4	1400 to 2000 (mm)	9 mm	-3 mm
			2200 to 2600 (mm)	12 mm	-5 mm

*Please refer back to one of our sales agent to be consulted to ensure that the correct

Resistance to chemical attack

Maximum Content of Aggressive CO2 (mg/l)	Maximum Content of Sulfates (SO4-) (mg/l)	Maximum Content of Magnesium (Mg++) (mg/l)	Maximum Content of Ammonium (NH4+) (mg/l)	Minimum Value of PH
15	3000	500	30	5.5
7	400	100	30	6
15	3000	500	30	5.5
No limit	No limit	No limit	No limit	4

Tests

Tests	Standard
Thickness of the lining	ISO 4179
Testing of Seal Coat	AWWA C104/A21.4-95

Maximum operating temperature

With the use of asphaltic Seal Coat 150°F (66°C). Without the use of seal coat 212°F (100°C)

Compressive Strength

not less than 50MPA

Method of applying

Centrifugal Process and projection mehod

Hazen Williams flow coefficient (C Value)

140

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