



# Data Sheet

## WHAT WE DO

CORE Linepipe® eliminates internal corrosion in extreme operating conditions by supplying a proprietary pipeline system that consists of:

- Steel pipeline with factory installed HDPE liner
- Proprietary mechanical joining system (ClickWeld®) to connect steel tubulars, eliminating field welding
- Premium electrofusion couplings to join the HDPE liner
- Consultation on design, engineering support (applications engineering), and a range of material options to meet demand
- Integrated field services, project support, and pipeline design

## PRODUCT PERFORMANCE

- CORE Linepipe® delivers pipelines that are durable, versatile, and meet the demands of the most extreme service conditions
- The HDPE liner is installed in a factory environment. The installation is closely controlled using our stringent QC programs
- CORE Liner is a highly engineered system designed to reduce manpower, equipment, and quality issues. The process is consistent, repeatable, and controlled
- CORE Linepipe® uses premium materials customized to meet service requirements
- Made in Canada with a 25-year design life

## CORE EFFICIENCY AND COST CERTAINTY

Reduced installation manpower, time, and cost:

- Factory pre-installed liners eliminating the need for pulling liner in the field
- Reduced pipe freight
- Reduced workspace requirements, no traditional bell holes
- Less vulnerable to weather delays
- Single hydrotest



- No welding
- No separate liner crew
- No bell holes



- 7-10 (min) / joint
- 15 mins / flange
- Avg 40 mins / field cut
- 2625 - 3937 ft / day
- 2-4 man crew

## COST CERTAINTY BY DESIGN

\*CORE Liner

\*ClickWeld®

\*CORE Service



CORE LINEPIPE USA, INC.

# Data Sheet

## APPLICATION ENVELOPE



| PARAMETER   | SPECIFICATION                                 |
|-------------|---|
| Pressure    | Up to 900 ANSI/ 2140 psi                      |
| Temperature | 140°F (Oil Emulsion)<br>176°F (Water Service) |

Product Data is subject to change.

Consult your CORE Linepipe® representative for more information.

## PRODUCT SPECIFICATIONS

| PRODUCT             | SPECIFICATION  |
|---------------------|--|
| Steel pipe          | API spec 5L X52 PSL 2 ERW, 62 feet joints  |
| Thermoplastic liner | Bi-Modal HDPE PE4710 liner   |
| Flow coefficients   | Hazen-Williams 150<br>Darcy-Weisbach = 0.000005 ft or 0.0015 mm<br>Manning 0.009 |

| Nominal steel outside diameter | Weight   | Steel wall thickness | Liner inside diameter | Liner wall thickness | ClickWeld® ring outside diameter |
|--------------------------------|--|----------------------|-----------------------|----------------------|----------------------------------|
| inches                         | lbs/ft   | inches               | inches                | inches               | inches                           |
| 6"                             | 16   | 0.188                | 5.75                  | 0.25                 | 8.25                             |
| 8"                             | 25   | 0.220                | 7.52                  | 0.33                 | 10.75                            |
| 10"                            | Product Under Development  |                      |                       |                      |                                  |
| 12"                            | Product Under Development  |                      |                       |                      |                                  |
| Pipe Bends                     | Can be pre-manufactured or field bent<br>Minimum 20D - Cold bends only (shop or field) |                      |                       |                      |                                  |
| Flanges                        | Assembled at Plant   |                      |                       |                      |                                  |

### CORE Liner Application Envelope

|               | WT     | External Coating | Pressure Capacity | Temperature               | Water | Oil | Gas | H <sub>2</sub> S |
|---------------|--------|------------------|-------------------|---------------------------|-------|-----|-----|------------------|
|               |        |                  |                   |                           |       |     |     |                  |
| 6" CORE Liner | 0.188" | YJ2K*            | 2140 PSI          | 140°F                     | YES   |     |     |                  |
|               |        |                  |                   | 176°F Water/<br>140°F Oil |       |     |     |                  |
| 8" CORE Liner | 0.220" |                  | 1480 PSI          | 140°F                     |       |     |     |                  |
|               |        |                  |                   | 176°F Water/<br>140°F Oil |       |     |     |                  |

\*YJ2K is a three layer fusion bonded epoxy based system



Corrosion Resistant steel pipelines - no welding

Eliminates traditional field welding drastically reducing pipeline costs.

Cost ↓



Construction time is reduced as much as 50% compared to field liners, reducing pipeline costs.

HALF the time ↓