

HFW X80 Conductor Casing (1/2)

1. Features

- High strength X80 heavy wall HFW* pipe, up to 25.4 mm (1.000") in thickness, suitable for use as conductor casing in deepwater well designs.
- Entirely manufactured with enhanced coil/pipe equipment designed for 1" wall X80 HFW pipe.
- Used in applications where UOE pipes are used.

*HFW pipe: a pipe welded using High-Frequency Electric resistance welding.



World thickest X80 HFW pipe
X80 559 mm (22") x 25.4 mm (1.000")

2. Technical Advantages

**High conductor casing performance,
as proven in mechanical and collapse test results.**

Collapse Test Results X80 HFW (508 x 20.6)

Pipe No.	Grade	Outside diameter [mm]	WT [mm]	D/t	Collapse pressure (Experiment) [MPa]	Collapse pressure (API Equation) [MPa]	Exp./API
1	X80	508(20")	20.6	24.7	28.5	20.8	1.37
2	X80	508(20")	20.6	24.7	28.7	20.8	1.38

Mechanical Properties X80 HFW (508 x 20.6) 1)

Base metal (transverse)	Avg.	Max.	Min.
YS (MPa)	641	664	620
TS (MPa)	786	811	774
Y/T	0.82	0.85	0.79
El (%)	34.2	36.7	31.8
vE at 0°C / individual (J)	231	315	183
Weld seam (transverse)	Avg.	Max.	Min.
TS (MPa)	725	738	716
vE at 0°C / individual (J)	234	315	160

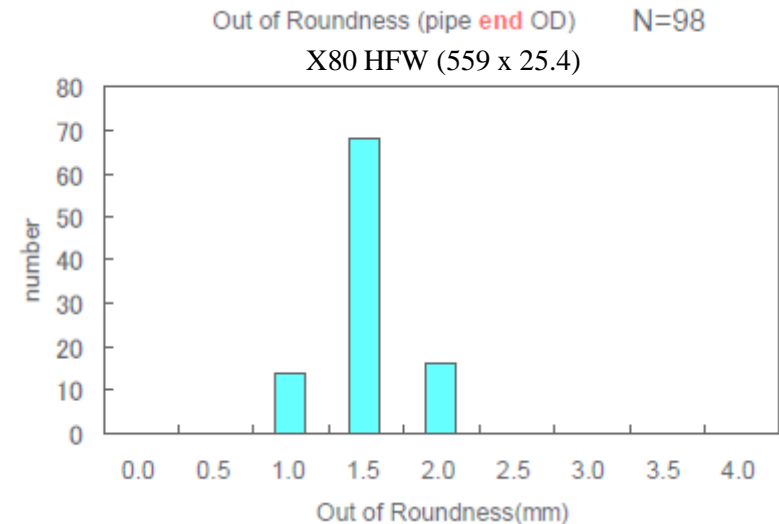
1) Rio Pipeline 2013 Conference & Exposition IBP1163_13
"Metallurgical Design and Performance of API X80 Grade Heavy Wall HFW Pipe with Excellent Low-temperature Toughness"



HFW X80 Conductor Casing (2/2)

3. Commercial Advantages

- **Fabrication is easy, as the precision of the pipe's diameter and thickness facilitates welding.**
→ This will contribute to the reduction of well construction costs.
- **Cost competitive against DSAW pipe**



4. Supply Record

Developed in 2014

- **HFW X80 has been approved for use as conductor casing by a major oil company.**
- **The supply of HFW X80 to major fabrication companies has been commenced.**

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