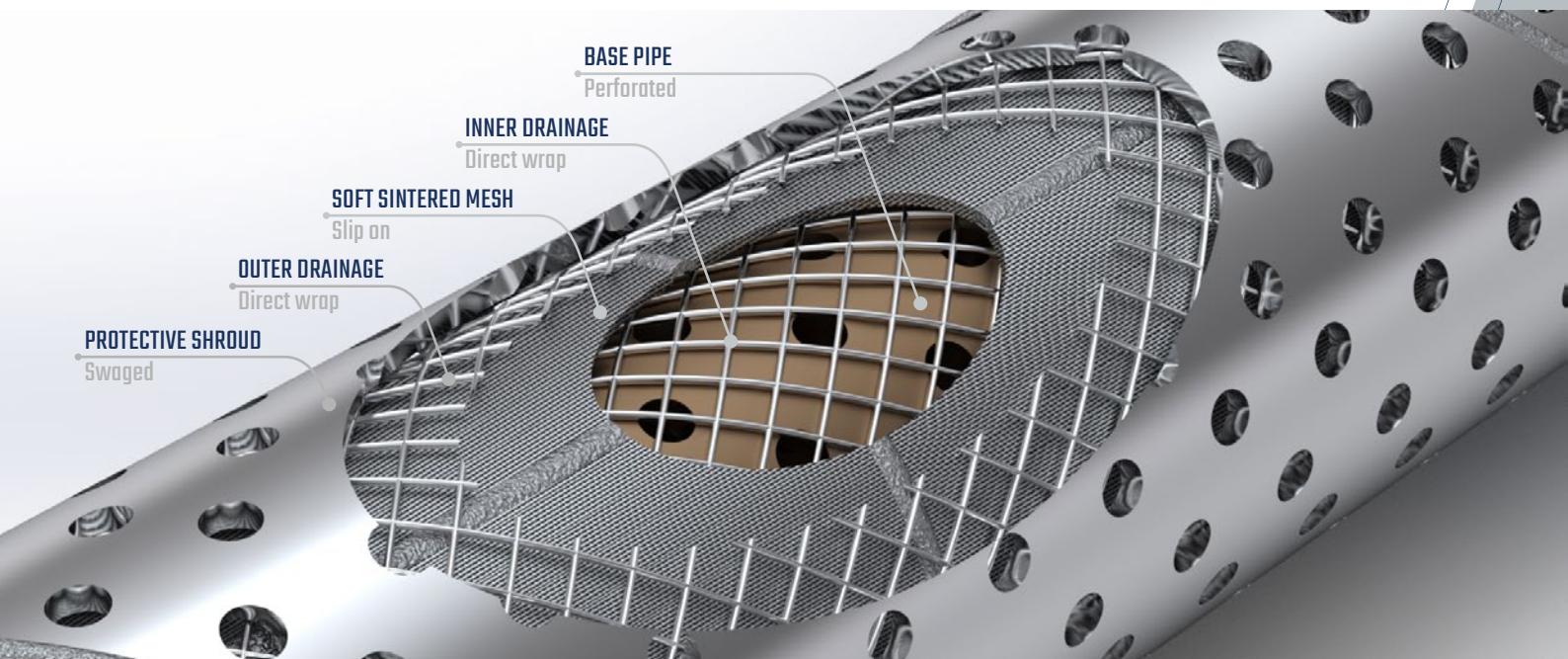


ASSURE

PREMIUM SCREEN

PRODUCT TECHNICAL DATA



Assure is the first Direct Wrap Premium Screen to be introduced in the market. Since its launch in 2008, it has a proven track record of thousands of joints and has been installed in numerus wells across the globe. Using the principles of Direct Wrap drainage layer and reduced gap construction, Assure can deliver exceptional mechanical properties while maintaining sand control performance.

A Premium Screen's performance derives from two characteristics: the *filter media* and the overall construction of the screen. Assure uses a *sintered mesh* laminate which provides enhanced sand retention and plugging resistance. The sintering process also provides additional strength to the mesh and locks the engineered pore geometry. Assure overall construction utilises *inner* and *outer drainage layers* to provide uniform standoff between the *filter media* and its adjacents layers (*base pipe* and *protective shroud*) which ensures uniform flow over the entire filter's surface. The unique *protective shroud*'s sizing process ensures conforming fit over the *outer drainage layer*, enhancing the mechanical properties of the screen assembly.

MAIN APPLICATIONS

- Deepwater, High CAPEX wells
- Wellbores with high pressure requirements
- Openhole stand alone screen completions
- Openhole & cased hole gravel pack completions
- Through tubing application

STRENGTHS

- Excellent mechanical properties
- Excellent sand retention capabilities
- Optimal product OD
- Reliability

CHARACTERISTICS

- The Direct Wrap of layers provides excellent mechanical properties and reduced product OD
- Sintered laminate filter media available in Fine(115 μ), Medium (175 μ) and Coarse (250 μ), along with customization
- Filter layer comes in 316Lss or Alloy 20
- Base pipe metallurgy covers from basic carbon steel to high chromium alloy
- Inner and outer drainage layers provides uniform flow distribution
- Available in various screen coverage/sizes including through tubing diameters for remedial applications

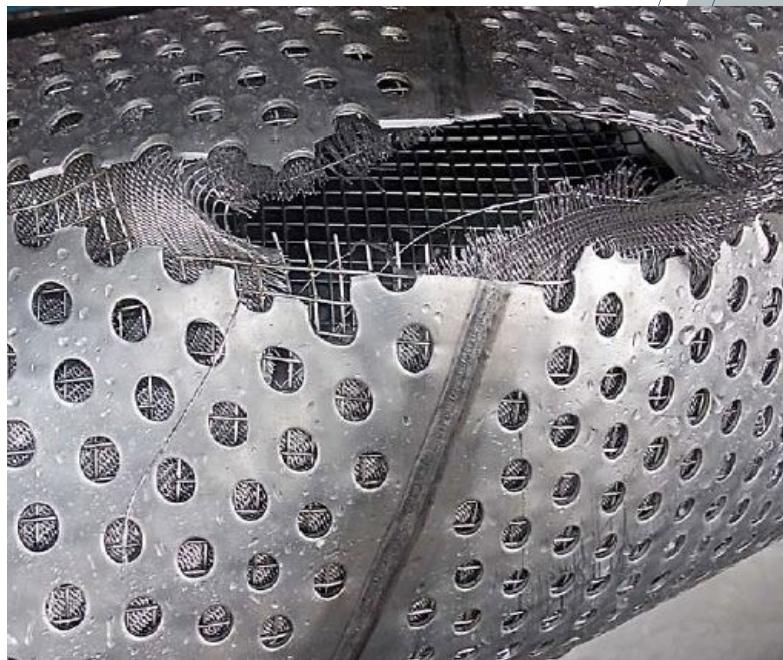
MANUFACTURING & QUALITY

The manufacture of Assure undergoes rigorous quality assurance and control practices including a detailed Quality Control Plan, full material and operator traceability and quality control inspection throughout the process.

The critical filter media element is sent to a third party laboratory, Whitehouse Scientific for glass bead testing to define its Filter Cut Point and to verify the filter media is within specification. All information is correlated into a Quality Dossier delivered with the product.

Assure has been tested under the ISO 17824 for Sand Control Screens by an independent testing laboratory with excellent results in burst and collapse tests compared to other industry Premium Screens.

PRODUCT TECHNICAL DATA



DATA

BASE PIPE SIZE (Inch)	BASE PIPE WEIGHT (Lbs/Ft)	PRODUCT OD (Inch)	HOLE SIZE (Inch)	NUMBER OF HOLES (per Ft)
2 3/8	4,6	2,99	3/8	48
2 7/8	6,4	3,48	3/8	60
3 1/2	9,2	4,11	3/8	72
4	9,5	4,61	3/8	84
4 1/2	11,6	5,11	3/8	96
5	15	5,61	3/8	108
5 1/2	17	6,11	3/8	120
6 5/8	24	7,24	3/8	132
7	29	7,61	3/8	144

*For more details on collapse, burst, tensile and other ratings please contact sales@completionproducts.com.

JEWELRY

Assure sand control screen product is customizable and shall be integrated with other flow control equipment's.

ICD/AICD

In flow control devices (ICD) can be integrated with Assure for optimisation of the reservoir in-flow profile to delay the onset of water production and increase the asset recovery of the field.

SSD FLOW CONTROL DEVICES

Assure can incorporate a sliding sleeve door (SSD) to provide a system that allows selective shut-off in different sections of the pay zone. A shifting tool is used to close the sliding sleeve, successfully isolating the reservoir from the tubing ID.

THROUGH TUBING SYSTEM

The flow-thru system, if integrated, interconnects multiple screens to create a continuous flow path from the start to the end of the pay zone. This improves gravel packing in the annulus and provides uniform production or injection when flowing through a sliding sleeve.