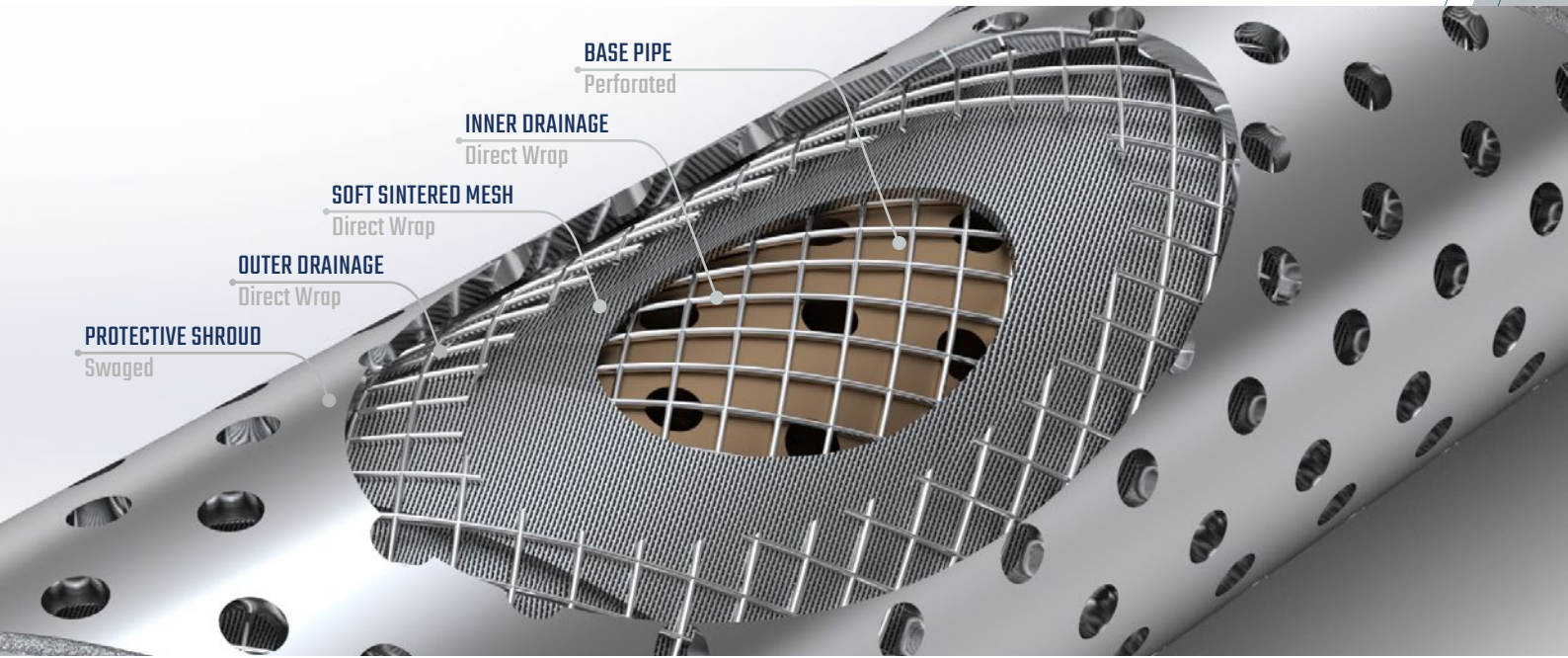


SECURE

DIRECT WRAP PREMIUM SCREEN

PRODUCT TECHNICAL DATA



Secure is a Direct Wrap Premium Screen designed for sand control applications, and one of the latest technologies developed by CP. Using the principles of Direct Wrap and swaging, gaps between layers are eliminated, delivering exceptional mechanical properties while providing high open area for sand control performance. A Premium Screen's performance derives from two characteristics: the *filter media* properties such as pore size and geometry and secondly the overall construction of the screen. Secure Premium Screen utilizes a unique heat treatment process after weaving which increases the mechanical properties of the screen such as burst, collapse, etc; it also doesn't require welding.

Secure Premium Screen overall has an *inner* and *outer drainage layers* that provides a uniform standoff between the perforated *base pipe*, *filter media* and *protective shroud*: two drainage layers help ensure uniform flow over the surface area of the *filter media*. The Secure *filter mesh* is spirally wrapped tight onto the *inner drainage layer* with an overlap ensuring sand control integrity. Furthermore the unique *protective shroud* sizing process enhances the mechanical properties and reduces the product OD.

MAIN APPLICATIONS

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

STRENGTHS

- ❑ Excellent mechanical properties
- ❑ Cost-effective
- ❑ Reliability
- ❑ Reduced product OD (Lower than typical premium coupling OD)

CHARACTERISTICS

- ❑ Elimination of gaps between layers makes basepipe and filter media acts as one element
- ❑ High open area
- ❑ Direct Wrap of layers provides excellent mechanical properties and reduced product OD
- ❑ Direct Wrap soft sintered filter media in 316L SS, 825
- ❑ Screens nominal pore size comes in Fine, Medium, Coarse but other customizable sizes are available
- ❑ Inner and outer drainage layers provides uniform flow distribution
- ❑ Available in various screen coverage/sizes including through tubing diameters for remedial applications



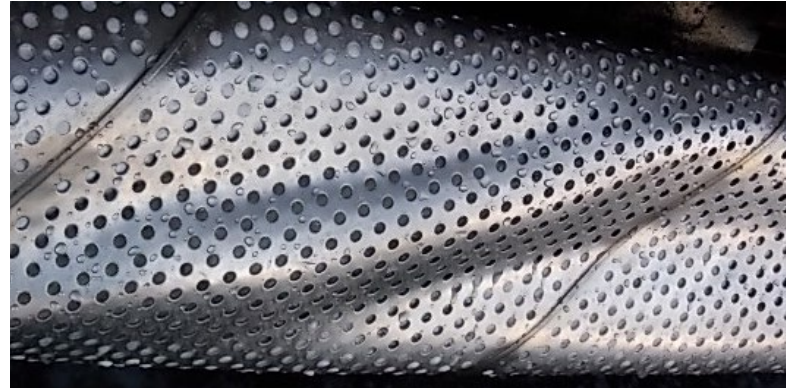
MANUFACTURING & QUALITY

Customized state-of-art machine with semi-automated control system that produces high quality Direct Wrap premium mesh sand control screens.

The manufacture of Secure undergoes rigorous quality assurance and control practices including a detailed Quality Control Plan, operator traceability and full 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 that the filter media is within specification. Mesh undergoes a full stringent inspection, with all information correlated into a Quality Dossier delivered with the product.

All products are manufactured with 100% traceability records. Secure has been tested under the ISO 17824 for Sand Control Screens with excellent results in burst and collapse tests.

PRODUCT TECHNICAL DATA



DATA

BASE PIPE SIZE	BASE PIPE WEIGHT	PRODUCT OD	HOLE SIZE	NUMBER OF HOLES
(Inch)	(Lbs/Ft)	(Inch)	(Inch)	(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	4,10	3/8	72
4	9,5	4,60	3/8	84
4 1/2	11,6	5,10	3/8	96
5	15	5,60	3/8	108
5 1/2	17	6,10	3/8	120
6 5/8	24	7,23	3/8	132
7	29	7,60	3/8	144

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

JEWELRY

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

ICD/AICD

In flow control devices (ICD) or autonomos inflow control device (AICD), which improves oil recovery, can be integrated with Secure to improve process efficiency of the well production.

SSD FLOW CONTROL DEVICES

Secure 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.