

# SECURE DIRECT WRAP PREMIUM SCREEN

Secure is the first Direct Wrap Premium Screen to be introduced to the market. Using the principles of Direct Wrap, Secure can deliver exceptional mechanical properties while providing high open area for sand control performance. A Premium Screen's performance is derived from two characteristics, the filter media and secondly the overall construction of the screen.

Secure Premium Screen utilizes a unique heat treatment process after weaving which increases the mechanical property of the screen such as burst, collapse, etc.

Secure Premium Screen overall has an Inner Drainage Layer that provides a uniform standoff between the perforated Base Pipe and Filter Media and an Outer Drainage Layer that provides a uniform standoff between the Filter Media and the 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 of 1" to 2" on the edges. The unique Protective Shroud sizing process ensures a conforming fit over the Outer Drainage layer, enhancing the mechanical properties of the Screen Assembly.

## APPLICATIONS

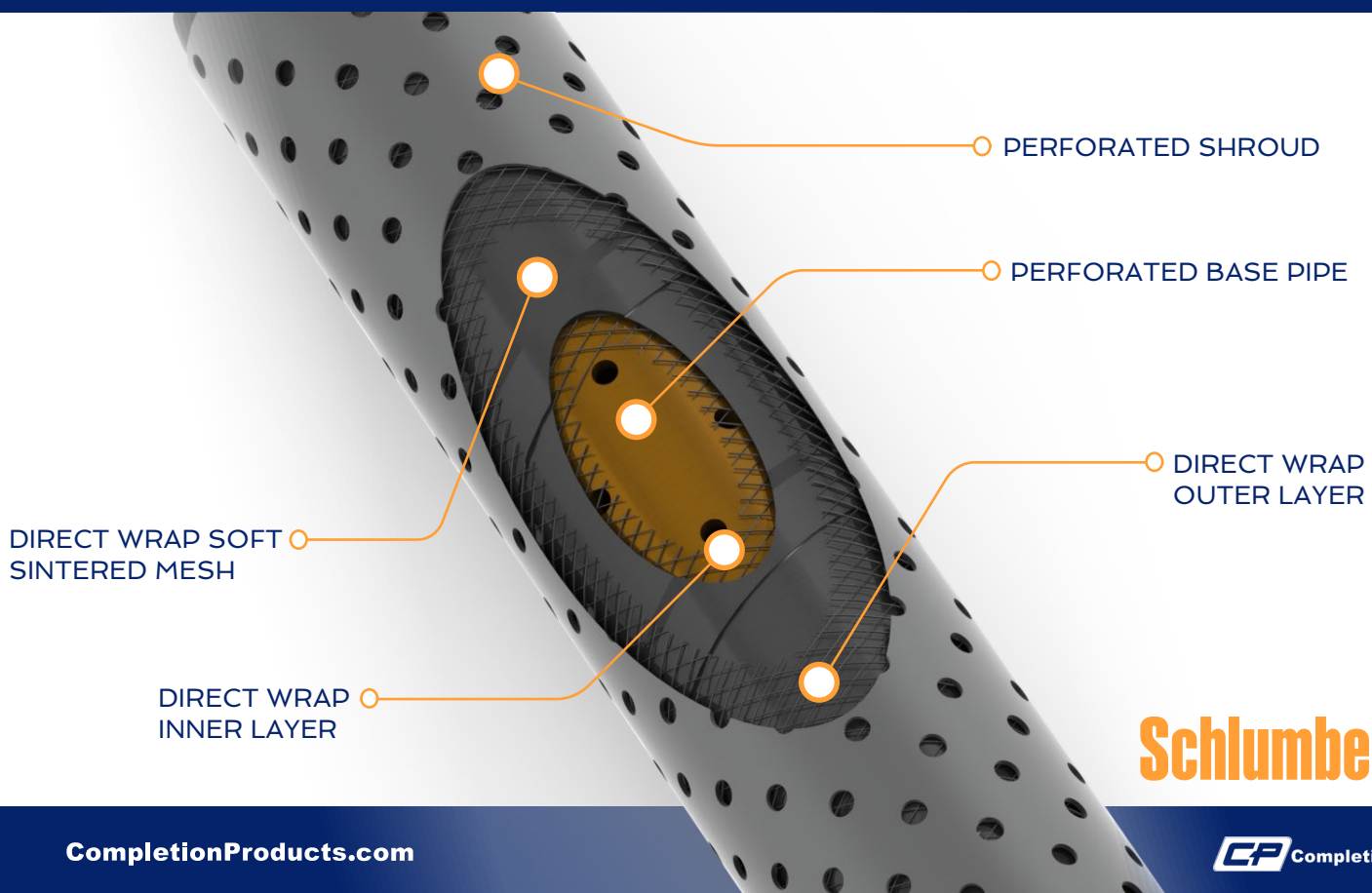
- + Openhole stand-alone Screen completions.
- + Openhole gravel pack completions.
- + Thru-tubing version for remedial Sand Control applications

## BENEFITS

- + Excellent Mechanical Properties
- + Excellent Sand Retention capabilities
- + Reduced product OD
- + Reliability

## FEATURES

- + High open area
- + No gaps between layers
- + Direct Wrap of Layers providing excellent mechanical properties and reduced product OD
- + Direct Wrap Soft Sintered filter media
- + Available in Extra Coarse and Coarse Filter Layer in 316Lss
- + Inner and Outer Drainage Layers providing uniform flow distribution.
- + Available in various Screen coverage.



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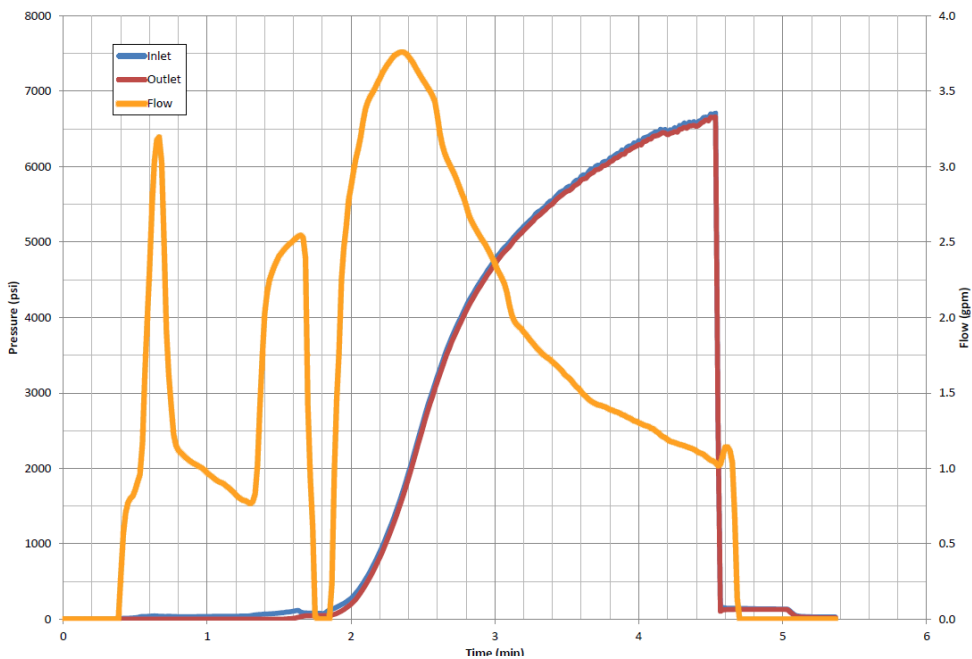
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## QUALITY

The manufacture of Secure 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.

Secure has been tested under the ISO 17824 for Sand Control Screens by an independent testing laboratory with excellent results in burst and collapse tests.

## SCREEN COLLAPSE GRAPH



**FILTER MEDIA PROPERTIES**  
Coarse  
Extra Coarse

**NOMINAL WHS FILTER CUT POINT**  
275µm  
330µm

**AIR PERMEABILITY (SCF/MIN)**  
600-900  
600-900

BASE PIPE SIZE	BASE PIPE WEIGHT (Lbs/Ft)	PRODUCT OD (Inch)	PRODUCT WEIGHT (Lbs/Ft)	HOLE SIZE (Inch)	NUMBER OF HOLES (per Ft)	COLLAPSE PRESSURE (PSI)	BURST PRESSURE (PSI)
3-1/2"	9.2	4.11	12.3	3/8	72	7,000	2,400
4.0"	9.5	4.61	13.0	3/8	84	6,667	2,192
4-1/2"	11.6	5.11	15.5	3/8	96	6,333	1,983
5.0"	15	5.61	19.1	3/8	108	6,000	1,775
5-1/2"	17	6.11	21.4	3/8	120	5,667	1,567
6-5/8"	24	7.24	29.0	3/8	132	5,333	1,358
7"	29	7.62	34.7	3/8	144	5,000	1,150

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