



## POROBOND

HP Well Screen's PoroBond Screens are the strongest metal mesh premium screens in the industry. These screens are customized to your specifications for maximum reliability and plugging resistance suitable for the most severe conditions.

### Diffusion Bonded

The PoroBond is a diffusion bonded multi layer screen protected from a robust outer shroud. Its individual weave and mesh layers are metallurgical bonded together from a special sintering technique. It enables a diffusion of all wires in contact with one another preserving the geometrical structure of the individual layers. The result is a stable porous screen ensuring pore-size, pore distribution, porosity and permeability even at maximum pressure.

### Features

The PoroBond Screen design provides:

- A longer well life
- Secure pore sizes (confirmed by glass bead test)
- Increased productions rates
- Superior Strength
- High corrosion and erosion resistance
- Reliable Sand control

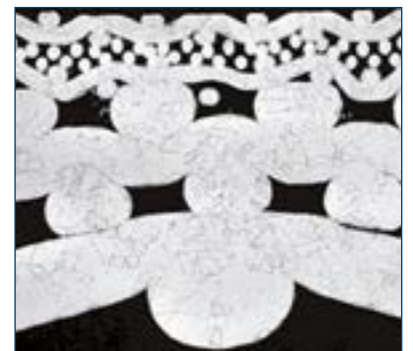
The excellent solution for reliable sand control in various completions: Horizontals, Multi laterals, Short-radius, High pressure temperature, High rate gravel pack, Frac pack, Through tubing, etc.

### Diffusion of all layers

Unlike other premium screens the PoroBond screen manufacturing process enables diffusion of all layers including the drainage layer.

The multi layer design consists of:

- Protection layer – against physical influences
- Filter layer – selected according pore size
- Protection layer – against deformation under high pressure
- Support layer – creating a stable structure
- Drainage layer – improves flow capacity





# HP WELL SCREEN

# POROBOND

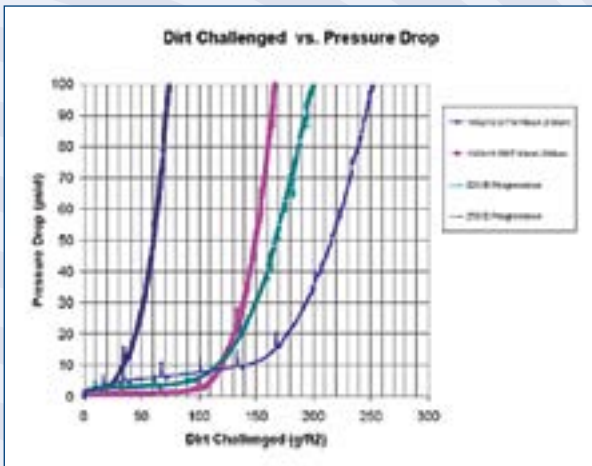
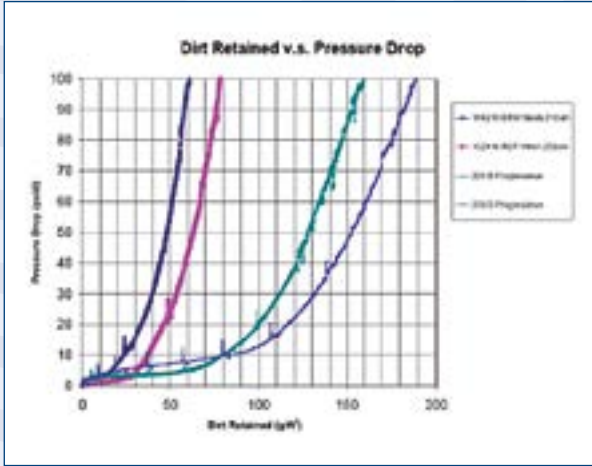
## Customized design

Each layer of wire mesh is carefully selected on the particle size distribution of the formation sands, and exhaustive laboratory tests.

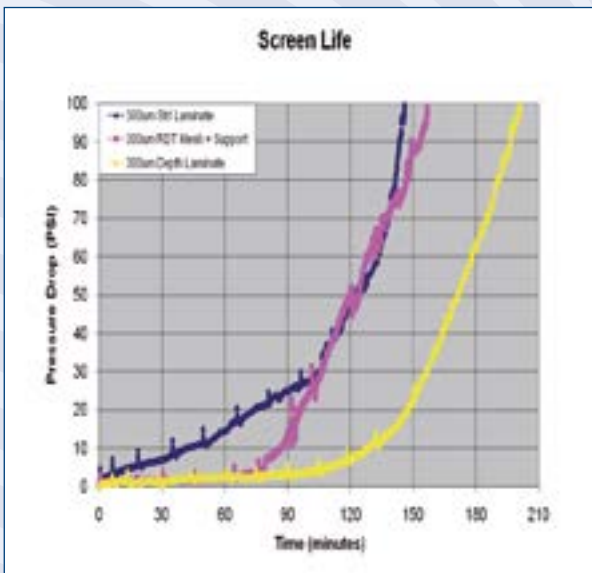
- Nominal pore sizes 75, 125, 175 and 250 micron other rating options available up to 400 micron
- Micron rating confirmed with glass bead testing
- Additional layers of weave to provide extended dirt holding capacity and flow
- Customized shroud design
- Customized material grades 316L/alloy 20 other grade options available

## Dimensional data

Base pipe OD (in.)	Number of Holes per ft	Open area pipe (in <sup>2</sup> /ft)	Screen OD (in.)	Screen area (in <sup>2</sup> /ft)
1.315	30	3.3	1.93	65
1.660	36	3.9	2.29	78
1.900	42	4.6	2.46	85
2.063	42	4.6	2.71	93
2.375	54	6.0	3.02	104
2.875	68	7.3	3.52	123
3.500	78	8.6	4.14	147
4.000	90	9.9	4.64	166
4.500	102	11.3	5.13	185
5.000	114	12.6	5.64	204
5.500	126	13.9	6.15	223
6.625	138	15.3	7.30	266
7.000	150	16.6	7.68	280
7.625	162	17.9	8.32	300
8.625	186	20.5	9.34	337
9.625	210	23.2	10.36	375



Comparative data Sintered laminate vs. DTW / RDT



Comparative data Sintered laminate vs. RDT

