

# PetroGuard® Advanced Mesh Screen

**FOUR TIMES THE SAND RETENTION AND TRIPLE THE PLUGGING RESISTANCE OF CONVENTIONAL SCREENS**

## OVERVIEW

PetroGuard® Advanced Mesh screen brings superior filtration technology to the upstream oil and gas industry. Its multi-layered construction is designed to provide the highest solids retention and plugging resistance possible.

Conceived for fines-prone heavy oil reservoirs, development testing confirmed this breakthrough in oilfield filtration technology is ideal for a wide range of sand control applications. In fact, the more poorly sorted the sand, the better the relative performance of PetroGuard Advanced Mesh screen when compared with wire-wrapped screen and premium metal mesh screen products.

Unlike older depth filtration technology, PetroGuard Advanced Mesh screen is formed from a series of surface filter layers. This means precise pore size control and no tortuous flow paths, making it possible to backflush to clean the screen.

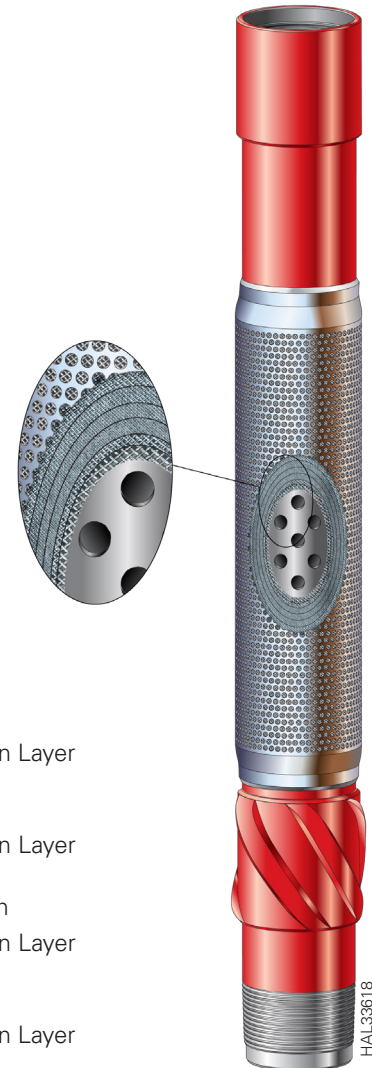
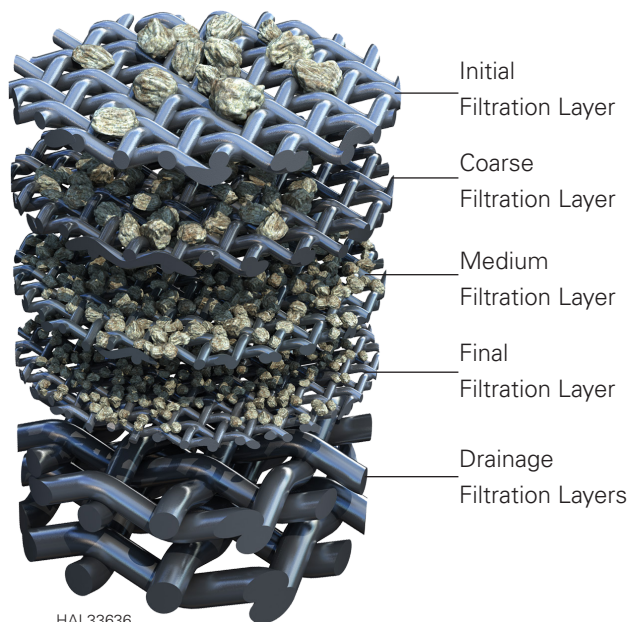
## FEATURES

- » Custom designed for each project
- » Multiple graduated filtration layers
- » No tortuous flow path
- » Precise pore size control
- » Durable outer shroud for protection during installation

## BENEFITS

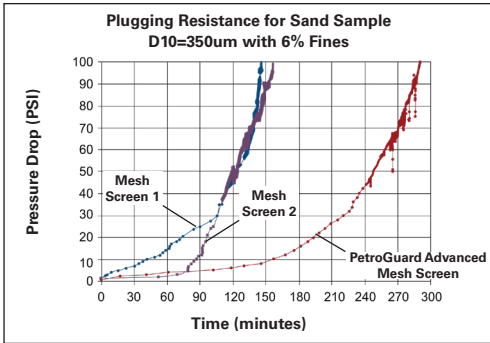
- » Higher solids retention
- » Improved plugging resistance
- » Optimized filtration for each field
- » Reduce need for pumped sand control solution

This technology allows the use of bare screen sand control techniques in completions where typically a pumped sand control solution would be required. Using graduated filtration layers, PetroGuard Advanced Mesh screen filters progressively smaller particles from the production stream as flow moves toward the basepipe, allowing the valuable final filtration layer to be challenged by fewer solid particles. Each screen is designed specifically for a project's unique sand sample. The result is a custom-designed sand screen – a significant improvement over traditional screen sizing methods.

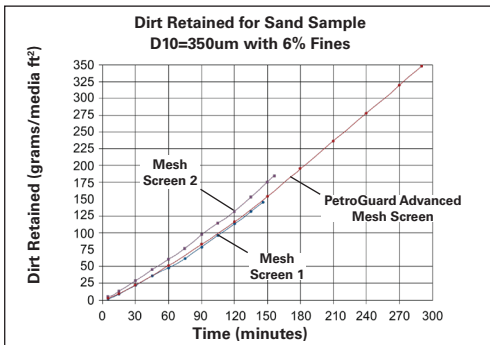


PetroGuard® Advanced Mesh Screen Performance

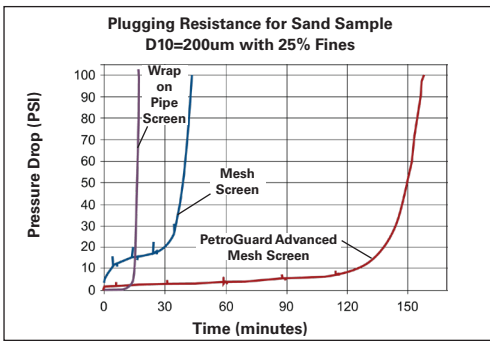
Specifications



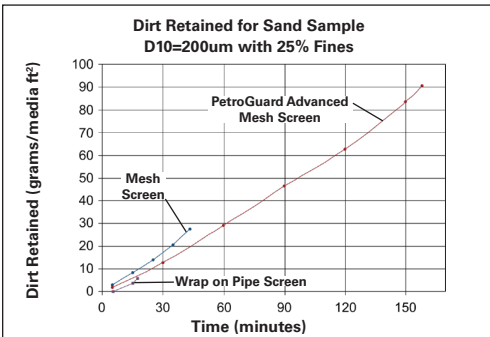
HAL33647



HAL33648



HAL33649



HAL33650

Basepipe				Assembly Max OD	Screen Area
OD	Holes Per Foot	Hole Size	Open Area of Holes		
in. (mm)		in. (mm)	in. <sup>2</sup> /ft (cm <sup>2</sup> /m)	in. (mm)	in. <sup>2</sup> /ft (cm <sup>2</sup> /m)
1.05 (26.67)	54	5/16 (7.87)	4.1 (86.80)	1.66 (42.16)	46 (973.82)
1.32 (33.53)	66	5/16 (7.87)	5.1 (107.87)	1.92 (48.77)	56 (1185.52)
1.66 (42.16)	78	5/16 (7.87)	6.0 (127.02)	2.27 (57.66)	69 (1460.73)
1.90 (48.26)	42	3/8 (9.65)	4.6 (97.38)	2.44 (61.98)	77 (1630.09)
2.06 (52.32)	42	3/8 (9.65)	4.6 (97.38)	2.69 (68.33)	84 (1778.28)
2.38 (60.45)	54	3/8 (9.65)	6.0 (127.02)	3.00 (76.20)	95 (2011.15)
2.88 (73.15)	66	3/8 (9.65)	7.3 (154.54)	3.50 (88.90)	113 (2392.21)
3.50 (88.90)	78	3/8 (9.65)	8.6 (182.06)	4.12 (104.65)	137 (2900.29)
4.00 (101.60)	90	3/8 (9.65)	9.9 (209.58)	4.62 (117.35)	156 (3302.52)
4.50 (114.30)	102	3/8 (9.65)	11.3 (239.22)	5.11 (129.79)	175 (3704.75)
5.00 (127.00)	114	3/8 (9.65)	12.6 (266.74)	5.62 (142.75)	194 (4106.98)
5.50 (139.70)	126	3/8 (9.65)	13.9 (294.26)	6.13 (155.70)	213 (4509.21)
6.63 (168.40)	138	3/8 (9.65)	15.3 (323.90)	7.28 (184.91)	255 (5398.35)
7.00 (177.80)	150	3/8 (9.65)	16.6 (351.42)	7.66 (194.56)	269 (5694.73)
7.63 (193.80)	162	3/8 (9.65)	17.9 (378.94)	8.30 (210.82)	293 (6202.81)
8.63 (219.20)	186	3/8 (9.65)	20.5 (433.99)	9.32 (236.73)	331 (7007.27)
9.63 (244.60)	210	3/8 (9.65)	23.2 (491.14)	10.34 (262.64)	368 (7790.56)

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