SMDI

SCREEN MANUFACTURING DESIGN INC.

405-470-6553

Screen Manufacturing Design Inc. REPLACEMENT SHAKER SCREENS AND COMPLIANCE TO API RP 13C

As an independent replacement screen manufacturer, SMDI has taken extensive steps to follow theguidelines established by the American Petroleum Institute

API RP 13C and being Compliant in this testing procedure means that manufacturers test certain meshes using the spelled criteria within the test. The manufacturers then label both their screens and packaging with the results of the test and are then **API Compliant**. The procedure tests mesh performance down to a specific micron. That micron # falls into a range of microns which then correlates in the API # established for that range of microns. SMDI compliant meshes are listed below along with table 5 pg. 40 and 41 of the testing procedure to show the breakdown of API #'s and the range of microns that fall within the API #

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API RP 13C
PART NUMBER CONVERSION CHART

SMDI Mesh Designation	API RP 13C	API RP 13C d100 (MICRON)
DX 24	API 18	931
DX 38	API 35	544
DX 50	API 45	355
DX 70	API 60	270
GS 84	API 60	254
GS 110	API 70	225
GS 140	API 80	165
GS 175	API 100	156
GS 210	API 120	136
DX 165	API 140	103
GS 250	API 170	88
DX 250	API 200	70
DX 270	API 230	66
DX 325	API 325	44

Table 5- found on page 40 & 41 of API RP 13C
D100 SEPARATION AND API SCREEN NUMBER

D100 Separation (MICRONS)	API SCREEN NUMBER
>925,0 to 1090,0	API 18
>780,0 to 925,0	API 20
>655,0 to 780,0	API 25
>550,0 to 655,0	API 30
>462,5 to 550,0	API 35
>390,0 to 462,5	API 40
>327,5 to 390,0	API 45
>275,0 to 327,5	API 50
>231,0 to 275,0	API 60
>196,0 to 231,0	API 70
>165,0 to 196,0	API 80
>137,5 to 165,0	API 100
>116,5 to 137,5	API 120
>98,0 to 116,5	API 140
>82,5 to 98,0	API 170
>69,0 to 82,5	API 200
>58,0 to 69,0	API 230
>49,0 to 58,0	API 270
>41,5 to 49,0	API 325
>35,0 to 41,5	API 400

ALL ACCESS SCREEN INFO

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Screen Panel Packing, Weights, & Dimensions

Brand	Series/Type	Dimensions (in/cm)
Double Life®	AWD III	41.25" x 27.5" 104.775 x 69.85
Double Life®	AWD III PT	42.125" X 29" 107 X 73.66
Derrick®	FLC-2000™ (48X30)	41.25" x 27.5" 104.775 x 69.85
Derrick®	FLC-500™ 503/504/513/514	41.25" x 27.5" 104.775 x 69.85
NOV®Brandt®	Cobra®, Cobra®II, Cobra®S, Mini Cobra®, King Cobra®, King Cobra®II, King Cobra® +	25" x 49" 63.5x 124.46
NOV®Brandt®	VSM300® (Primary)	27" X 35" 68.58 X 88.9
NOV®Brandt®	VSM300® (Scalping)	27" X 37" 68.58 X 93.98
NOV®Brandt®	Venom®	25" x 49" 63.5x 124.46
National®	D235, D285P, D285DM, D285 OCD, & Prospector™ by Weatherford®	46.25" X 27.875" 117.475 X 71.12
M-I SWACO®	Mongoose PT®, Mongoose PRO® Meerkat PT®	23" X 46" 58.42 X 116.84
Fluid Systems®	All series	42" X 29" 106.68 X 73.66
Vortex Fluid Systems®	All series	24" X 46.25" 60.96 X 117.475
DFE	Triton	48.25" X 28.25" 122.55 X 71.55
Brandt®	4x5	48.25" X 59.5" 122.55 X 151.13
SWACO®	4X4 & 4X3	45" X 47.75" 114.3 X 121.29

We manufacture a complete line of replacement shaker screens for the above as well as custom shakers

The American Petroleum Institute description is the following; "This procedure gives a method to determine the drilled solids removal efficiency by a set of drilling fluid processing equipment. The drilled solids removal efficiency refers to the fraction of drilled rock discarded compared with the volume of drilled solids generated. Shale shaker screen designations and labeling are included as a method for manufacturers to mark screens in a consistent manner. The screen identification tag describes the separation potential, the conductance, and the non-blanketed area of the screen. Screen manufactures shall use this designation to comply with this standard.

SMDI's membership to API and adherence to the standards set forth in API RP 13C makes us a reliable source for replacement shaker screens and we look forward to working with you.

All API RP 13C test results are from an independent lab. Data is for informational purposes only. Original test data was provided for Global Wire Cloth. SMDI purchased all of Global Wire Cloth's assets in 2012, including API test results and manufacturing procedures.