



## THREE TIMES BETTER: POROMETRIC

1. MAXIMUM DIRT HOLDING CAPACITY
2. HIGH POROSITY
3. INCREASED FLOW CAPACITY



To demonstrate the superiority of this weave pattern, the following table compares the technical values of the Porometric 150 µm with a Dutch Twilled Weave (DTW) 150 µm and Plain Dutch Weave (PDW) 150 µm, which are very common filter media:

	POROMETRIC 150	DTW 150	PDW 150
GKD art. #	23370620	14370810	13370705
Geometric pore size	150 µm	150 µm	150 µm
Area weight	1.96 kg/m <sup>2</sup>	2.84 kg/m <sup>2</sup>	2.50 kg/m <sup>2</sup>
Wire mesh thickness	0.93 mm	0.72 mm	0.74 mm
Air permeability at 127 Pa	712 CFM/ft <sup>2</sup>	298 CFM/ft <sup>2</sup>	443 CFM/ft <sup>2</sup>
Air permeability at 200 Pa	4,670 l/m <sup>2</sup> /s	1,982 l/m <sup>2</sup> /s	2,980 l/m <sup>2</sup> /s
Porosity	73.5%	50.4%	58.0%
The maximum linear tensile strength in warp direction	112.1 N/mm	74.0 N/mm	69.0 N/mm
The maximum linear tensile strength in weft direction	89.5 N/mm	159.0 N/mm	123.0 N/mm

Manufacturing costs were considered as well when developing and designing this weave pattern, which is visible in a lower material weight and resulting wire usage. We plan to weave this new weave pattern with pore sizes available from 20 – 400 µm.