

Composite Cloth Poremet - Technical Data

Designation		Geometrical pore size μm	Thickness mm	Porosity %	Pressure drop mbar	A_s mm ² /cm	R_p N/cm	Weight kg/m ²	Eu
Poremet	Poremet 2	10	1,7	30	6,80	5,1	1.080	9,50	5.146
	Poremet 5	14	1,7	30	5,00	5,1	1.080	10,00	3.784
	Poremet 10	21	1,7	30	3,10	5,1	1.080	10,00	2.346
	Poremet 15	20	1,7	30	2,05	5,1	1.080	9,50	1.551
	Poremet 20	25	1,7	30	1,91	5,1	1.080	9,50	1.446
	Poremet 30	35	1,7	30	1,69	5,1	1.080	9,50	1.279
	Poremet 40	50	1,7	30	1,54	5,1	1.080	9,50	1.166
	Poremet 50	60	1,7	30	1,43	5,1	1.080	10,00	1.082
	Poremet 60	75	1,7	30	1,34	5,1	1.080	10,00	1.014
	Poremet 75	90	1,7	30	0,56	5,1	1.080	10,00	424

The pressure drop has been calculated for gas at an approach velocity of approximately 20m/min. These values may be used to compare composite cloths.

As: the effective cross section at the cutting edges, which run parallel to the wires to absorb drag.

Rp: is the yield strength value for the load on the composite cloth perpendicular to cross section A_s , which must not be exceeded.

Eu: The non-dimensional Euler number describes the ratio of pressure forces to inertial forces for the different weave specifications at similar flow conditions. The higher the Euler number of a weave specification, the higher the pressure loss of this weave specification will be. The Euler number allows comparison of differing weave specifications in terms of pressure loss.

The geometric pore size defines the diameter of the largest sphere passing through the weave.

The values given in this table are typical values for the composite cloths. They should not be used to infer any warranted qualities. We reserve the right to make technical changes and enhancements at any time.