Duplex - Technical Data

Geometrical pore size µm	Cloth- Designation	Elastic Limit warp/fill Rp N/cm	Number of Pores N Poren/cm²	AsK mm²/cm	AsS mm²/cm	Porosity %	A_{0rel} %	Weight kg / m²	Cloth Thickness mm	Eu
19	Duplex 15	60 / 130	39.200	0,12	0,27	60	11	0,30	0,10	271
23	Duplex 20	100 / 180	22.300	0,21	0,38	57	9	0,47	0,14	310
37	Duplex 30	100 / 230	11.400	0,20	0,47	60	11	0,56	0,18	157
55	Duplex 35	240 / 400	3.700	0,52	0,94	57	7	1,21	0,35	155
58	Duplex 45	180 / 350	3.700	0,39	0,94	57	10	1,10	0,34	123
82	Duplex 60	540 / 580	1.260	1,16	1,67	52	6	2,34	0,65	130
112	Duplex 75	570 / 660	870	1,16	1,92	54	7	2,59	0,74	92

A_0**rel**: = theoretical free flow are, through which the filtrate can flow relative to the area subject to the flow.

AsK and AsS: the effective cross section of the cutting edges, which run perpendicular to the wires to absorb drag. AsK = warp direction. AsS = fill direction.

Rp = maximum permissible stress on the cloth in the warp or fill direction without causing lasting and significant deformation.

The **porosity, weight and thickness** are approximate values. These depend largely on the tolerance of the wires.

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 are typical values for the filter cloths. They should not be used to infer any warranted qualities.

Spoerl reserves the right to make technical changes and improvements at any time.