Square Mesh Wire Cloth - Technical Data

Clear-mesh w µm	Wire-diameter d mm	Cloth-Designation	Elastic Limit warp/fill Rp N/cm	AsK mm²/cm	AsS mm²/cm	Porosity %	A_{0rel} %	Weight kg / m²	Cloth Thickness mm	Eu
20	0,020	w 0,020 mm - d 0,020 mm	25 / 25	0,08	0,08	63	25	0,13	0,04	136
25	0,025	w 0,025 mm - d 0,025 mm	35 / 35	0,10	0,10	63	25	0,16	0,05	111
32	0,025	w 0,032 mm - d 0,025 mm	30 / 30	0,09	0,09	68	32	0,14	0,05	65
42	0,036	w 0,042 mm - d 0,036 mm	45 / 45	0,13	0,13	66	29	0,21	0,08	57
50	0,040	w 0,050 mm - d 0,040 mm	45 / 45	0,14	0,14	67	31	0,23	0,09	45
63	0,040	w 0,063 mm - d 0,040 mm	40 / 40	0,12	0,12	71	37	0,20	0,09	28
71	0,050	w 0,071 mm - d 0,050 mm	55 / 55	0,16	0,16	70	34	0,26	0,11	29
80	0,050	w 0,080 mm - d 0,050 mm	50 / 50	0,15	0,15	72	38	0,24	0,11	23
100	0,065	w 0,100 mm - d 0,065 mm	70 / 70	0,20	0,20	71	37	0,33	0,14	20

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.

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