FREUDENBERG GAS DIFFUSION LAYERS – FUEL CELL

TECHNICAL DATA

PROPERTIES	UNIT	H14C14	H14C15	H15C14	H23C2	H23C3	H23C5	H23C8	H23C14	H23C15
HYDROPHOBIC TREATMENT		●	●	●		●		●	●	●
MICROPOROUS LAYER		●	●	●	●	●	●	●	●	●
Thickness @ 0.025MPa (Internal*)	µm	178	178	192	255	284	264	237	259	250
Thickness @ 1MPa (Internal*)	µm	145	146	152	222	236	219	206	215	209
Area Weight (DIN EN ISO 29073-1)	g/m²	90	93	89	135	149	128	135	132	132
Compression Set @ 1MPa (Internal*)	µm	9	11	11	6	20	15	2	12	12
TP Electrical Resistance @ 1 MPa (Internal*)	mΩ·cm²	6	5	7	9	9	8	7	6	5
IP Electrical Resistance (Internal*)	Ω	1.0	1.0	1.1	0.7	0.7	0.7	0.8	0.7	0.7
TP Air Permeability acc. to Gurley (ISO 5636-5)	s	0.5	15	0.5	50	15	23	80	0.5	15
IP Air Permeability @ 1 MPa (Internal*)	µm²	1.1	0.8	2.7	2.3	1.3	2.4	1.4	1.6	1.2

* Freudenberg internal measurement standard ** @ 200 Pa pressure drop TP = through-plane IP = in-plane

All values represent averages, which are subject to usual production tolerances. The values do not represent specifications.
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