

**FREUDENBERG GAS DIFFUSION LAYERS
FOR PEMFC AND DMFC**

H2315 SERIES

TECHNICAL DATA

	H2315						
	T10A	I6	C2	C4	I3 C1	I2 C6	I2 C8
HYDROPHOBIC TREATMENT	■	■			■	■	■
MICRO POROUS LAYER			■	■	■	■	■
PROPERTY							
Thickness@0.025 MPa (Internal) in μm	210	210	250	250	270	250	230
Area weight (DIN EN ISO 29073-1) in g/m^2	105	115	130	130	145	135	135
Through-plane resistance@0.6 MPa (Internal) in $\text{m}\Omega \cdot \text{cm}^2$	20	10	12	11	15	11	10
In-plane resistance (Internal) in Ω	1	0.8	0.8	0.8	0.7	0.8	0.8
Through-plane air permeability* (DIN EN ISO 9237) in $\text{l}/\text{m}^2 \cdot \text{s}$	300	160	-	-	-	-	-
Air permeability acc. to Gurley (ISO 5636-5) in s	-	-	50	30	20	30	70
In-plane air permeability (Internal) in μm^2	3.5	2	2.5	2	1.5	2	1.5
Tensile strength (DIN EN ISO 29073-3) in N/50 mm	60	80	80	60	120	70	70

* = at 200Pa pressure drop
(Rev. 02 – 30.03.2010)

All values represent averages which are subject to usual production tolerances. The values do not represent specifications. Any warranty and liability is subject to our General Terms of Delivery and Payment applicable at the delivery date.

RECOMMENDATIONS FOR GDL MATERIAL SELECTION

Active DMFC CCM	H2315 I3 C1	
	H2315 T10A	predominantly for cathode GDL
	H2315 T20A	high PTFE loading for water removal on cathode
	H2315 I6	predominantly cathode GDL for higher current density application
Active DMFC GDE (additional)	H2315 C4	
Automotive PEMFC	H2315 I2 C6	
	H2315 I2 C8	optimized for reduced humidification
Stationary PEMFC	H2315 I3 C1	
	H2315 C2	
	H2315 C4	in particular suitable for GDE
Other PEMFC Applications	H2315 I3 C1	
	H2315 I6	suitable for oxygen fuel cell operation

CONTACT

FREUDENBERG FCCT KG Höhner Weg 2-4, 69465 Weinheim, Germany, www.ffcct.com
FAX +49 6201 88 4489 **E-MAIL** ffcct@freudenberg.de