



## Gas Diffusion Layer

ElectroChem offers different kinds of GDL materials, e.g. carbon fiber paper, carbon cloth, Carbon Fiber Paper with Carbon Nanotube (CNT) on the surface, and Carbon NanoTube (CNT) paper as it is, and/or with various enhancements. These are also available with Hydrophobic treatment as well as Carbon MicroPorous Layer (CMPL).

Part No	Type	Thickness, $\mu\text{m}$	Porosity	Air Permiability	Through Plane Resistance
<b>Untreated</b>					
<a href="#">EC-AC-cloth</a>	cloth	275	-	-	< 8 m $\Omega\text{cm}^2$
<a href="#">EC-AC-paper</a>	paper	170	-	-	< 7 m $\Omega\text{cm}^2$
<a href="#">EC-CC1-060</a>	cloth	280	-	-	< 8 m $\Omega\text{cm}^2$
<a href="#">EC-TP1-030</a>	paper	110	80%	2500 ml-mm/(cm <sup>2</sup> -hr-mm Aq)	80 m $\Omega\text{cm}$
<a href="#">EC-TP1-060</a>	paper	190	78%	1900 cm <sup>3</sup> -mm/cm <sup>2</sup> -hr-mm Aq)	80 m $\Omega\text{cm}$
<a href="#">EC-TP1-090</a>	paper	280	78%	1700 cm <sup>3</sup> -mm/cm <sup>2</sup> -hr-mm Aq)	80 m $\Omega\text{cm}$
<a href="#">EC-TP1-120</a>	paper	370	78%	1500 cm <sup>3</sup> -mm/cm <sup>2</sup> -hr-mm Aq)	80 m $\Omega\text{cm}$
<a href="#">EC-SG-10</a>	paper	400	-	85 cm <sup>3</sup> /cm <sup>2</sup> -s	< 6 m $\Omega\text{cm}^2$
<a href="#">EC-SG-24</a>	paper	190	-	60 cm <sup>3</sup> /cm <sup>2</sup> -s	< 10 m $\Omega\text{cm}^2$
<a href="#">EC-SG-25</a>	paper	190	-	120 cm <sup>3</sup> /cm <sup>2</sup> -s	< 10 m $\Omega\text{cm}^2$
<a href="#">EC-SG-34</a>	paper	280	-	45 cm <sup>3</sup> /cm <sup>2</sup> -s	< 11 m $\Omega\text{cm}^2$
<a href="#">EC-SG-35</a>	paper	300	-	170 cm <sup>3</sup> /cm <sup>2</sup> -s	< 15 m $\Omega\text{cm}^2$
<a href="#">EC-GFA-6EA</a>	felt	6000	-	-	<12 $\Omega\text{mm}$
<a href="#">EC-GFD-46EA</a>	felt	4600	-	-	<6 $\Omega\text{mm}$
<a href="#">EC-KFD-25EA</a>	felt	2500	-	-	<30 $\Omega\text{mm}$

Part No	Type	Thickness, $\mu\text{m}$	Porosity	Treatment
<b>TFE Treated</b>				
<a href="#">EC-AC-cloth-T</a>	cloth	275	-	TFE treated
<a href="#">EC-AC-paper-T</a>	cloth	170	-	TFE treated
<a href="#">EC-CC1-060T</a>	cloth	280	-	15% TFE
<a href="#">EC-TP1-030T</a>	paper	110	-	15% TFE
<a href="#">EC-TP1-060T</a>	paper	190	-	15% TFE
<a href="#">EC-TP1-090T</a>	paper	280	-	15% TFE
<a href="#">EC-TP1-120T</a>	paper	370	-	15% TFE
<a href="#">EC-SG-10T</a>	paper	400	88%	5% TFE
<a href="#">EC-SG-24T</a>	paper	190	84%	5% TFE
<a href="#">EC-SG-25T</a>	paper	190	88%	5% TFE
<a href="#">EC-SG-34T</a>	paper	280	83%	5% TFE
<a href="#">EC-SG-35T</a>	paper	300	80%	5% TFE
<b>CMPL</b>				
<a href="#">EC-CMPL-TP</a>	paper	190	-	microporous carbon coating with TFE treatment
<a href="#">EC-CMPL-CC</a>	cloth	280	-	
<b>CNT</b>				
<a href="#">EC-CNT Growth GDL</a>	paper	150	-	CNT growth felt
<a href="#">EC-CNT Paper</a>	CNT	125	-	CNT paper

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