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# SIGRACET<sup>®</sup> GDL

*Optimized gas diffusion layers for PEM and DMFC fuel cell applications*

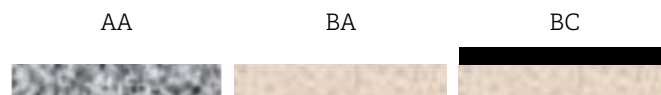


↑ SIGRACET GDL optimized gas diffusion layers

## Advantages

- Microporous layer improves stack performance and durability
- Consistent quality from our high volume continuous manufacturing line
- Optimized for performance under all operating conditions
- Standard materials available from inventory
- Compatible with 5-layer MEA technology

## Grades



The first appended letter in the product nomenclature depicts the PTFE wt% in the substrate.

The second appended letter depicts the type and formulation of the microporous layer (MPL).

## Standard SIGRACET GDL type:

GDL AA is our fully graphitized carbon fiber substrate.  
GDL BA is our hydrophobized substrate (5 wt% PTFE).  
GDL BC is our hydrophobized substrate (5 wt% PTFE) furnished with a MPL.

## Forms supplied

We supply SIGRACET gas diffusion layers in roll form in lengths of 75 ± 25 m.

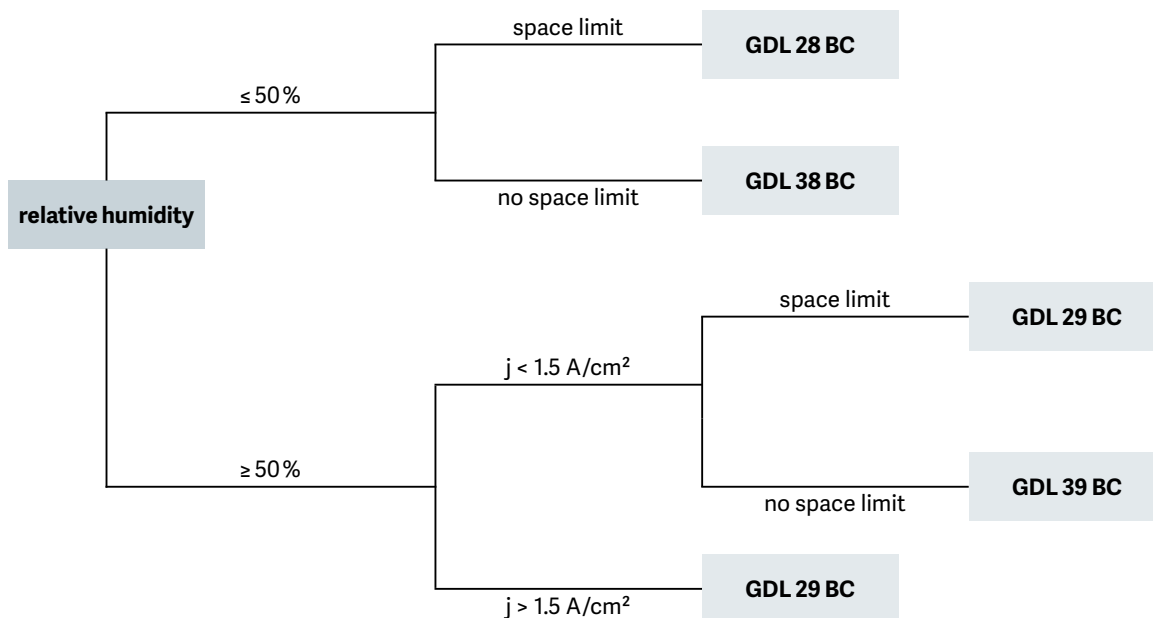
Our standard roll width is 45 cm.

Cut sheets are available at a surcharge.

## Recommended SIGRACET® GDL grades for your application

Fuel cell applications	Characteristics	Recommended grades
Stationary	dry operation or $< 1.5 \text{ A/cm}^2$	28 BC, 38 BC
	wet operation/low pressure or $> 1.5 \text{ A/cm}^2$	39 BC
Portable		39 AA/39 BC
Automotive	high current densities	29 BC
	large channel width	28 BC
HT-PEM	for making GDEs	38 BC
DMFC		28 AA/28 BC/29 AA/29 BC
PEM-electrolysis		39 AA/39 BC

## SIGRACET GDL selection guideline for PEMFC



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This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our "General Conditions of Sale".

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