

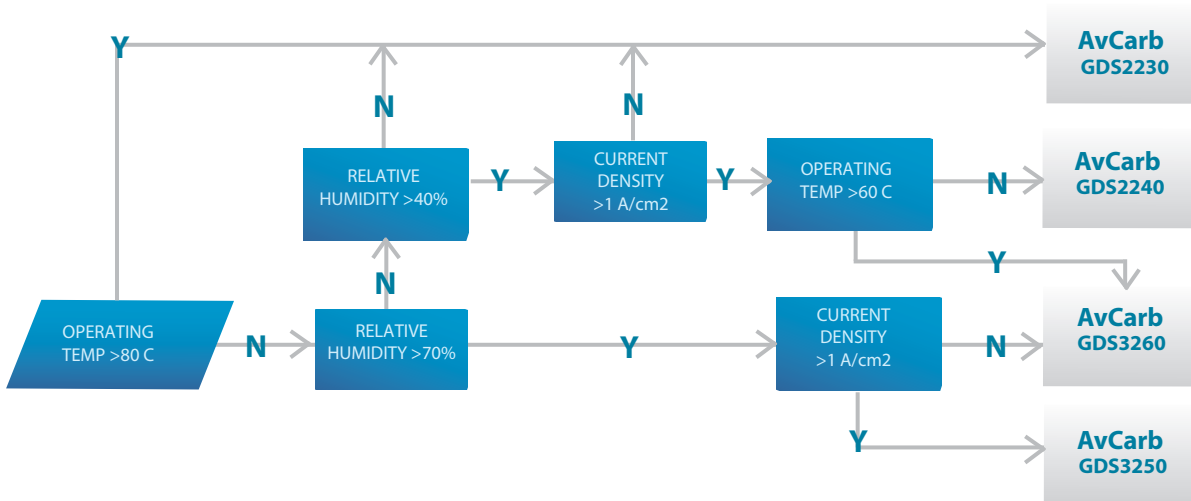
AvCarb Application Matrix for Gas Diffusion Layer Products

Actual selection maybe influenced by individual stack requirement.

AvCarb GDL DESIGN	Stationary	Backup Power	Automotive	Material Handling	DMFC anode (active)	DMFC anode (passive)
GDS2230	●	●				
GDS2240	●	●			●	
GDS3250			●	●		
GDS3260			●	●		
GDS22100						●

AvCarb Gas Diffusion Layer Product Selection Guide

Ballard's product portfolio allows customers to choose the GDL product solution that emphasizes the most important performance attributes. The flowchart below is a general selection guide. Please contact Ballard Material Products to ensure your GDL selection meets the needs of your fuel cell design.



Ballard's core GDL technology is rollable carbon fiber paper (e.g. AvCarb GDS3250, EP40), designed for superior performance and high volume manufacturing.

Ballard offers other GDL options for special fuel cell requirements:

- For high GDL mechanical strength - ask about GDL materials based upon the AvCarb Molded Graphite Laminates
- For very high flexibility, porosity - inquire about GDL materials based upon AvCarb Carbon Fabrics
- Customized PTFE, microporous layer treatments