

# DARAK® 2000 & 2003

DARAK® 2000 & 2003 is a microporous duroplastic separator. Due to its high temperature stability, low electrical resistance and very low acid displacement, DARAK 2000 & 2003 separators are suited for batteries with gelled electrolyte or in conventional flooded high performance batteries.

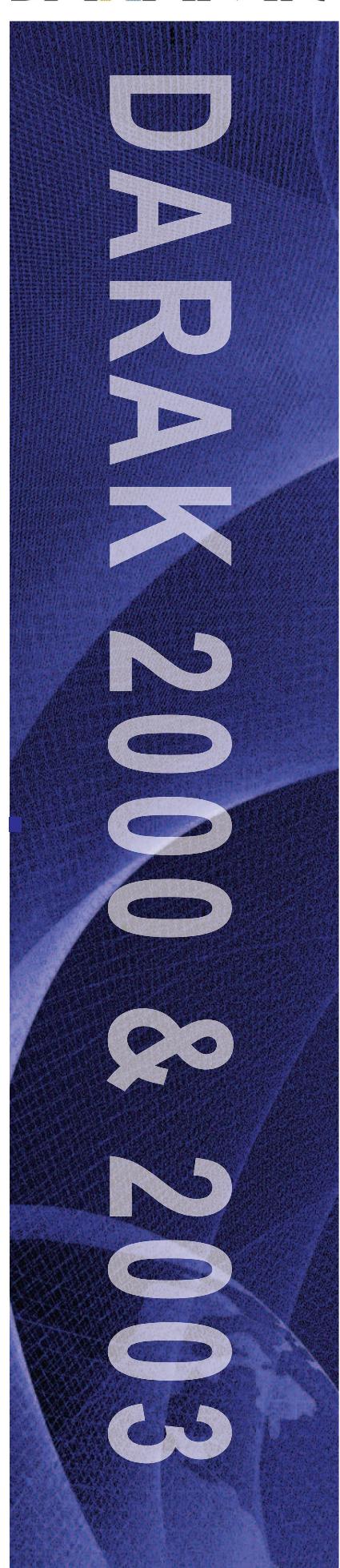


## Advantages

- Used in gelled electrolyte lead-acid batteries
- Proven reliability with over 30 years commercial use
- Ease of handling (manual or fully automated)
- Available in various profile designs and dimensions
- Available with or without glass mat
- High porosity and small average pore size (microporous)
- Low acid displacement and electrical resistance
- Low level of trace elements
- Separator is stable against additives, such as phosphoric acid
- No risk of crack formation in the backweb by mechanical forces

## Benefits

- High oxidation resistance ensures long battery life
- PVC-free (does not release chlorides to the electrolyte, no issue with recycling, no potential corrosion issues)
- Negative miniribs improve the filling of gel into the cells
- Rapid separator wet-out with electrolyte
- Not susceptible to corner breaks
- Mechanically stable under compression and temperature



**Table 1: DARA<sup>®</sup> 2000 & 2003 separator size range\***

Attributes	Unit	DARA <sup>®</sup> 2003	DARA <sup>®</sup> 2000	
		Typical dimensions		
Backweb Thickness	[mm]	0.35	0.40	
Height	[mm]	87 - 1250	87 – 1250	
Width	[mm]	65 - 800	65 – 800	
Overall Thickness	[mm]	0.65 – 4.25	0.70 – 4.30	
with Glass Mat 04**	[mm]	1.20 – 4.50	1.25 – 4.55	

\* DARA<sup>®</sup> separators can be tailor-made to fit into any cell

\*\*DARA<sup>®</sup> separators also available with other glass mat thicknesses

**Table 2: Key Properties of DARA<sup>®</sup> 2000 & 2003**

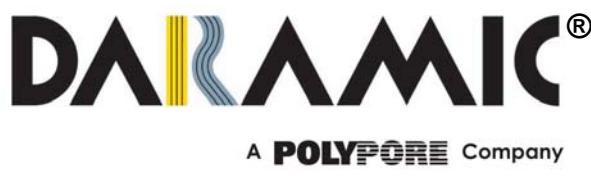
Attributes	Unit	DARA <sup>®</sup> 2003	DARA <sup>®</sup> 2000	
		Typical values*		
Backweb Thickness	[mm]	0.35	0.40	
Porosity	[%]	70	70	
Electrical Resistance	[ $\Omega$ cm <sup>2</sup> ]	0.08	0.09	
Acid Displacement	[ml/m <sup>2</sup> ]	140	160	
Wettability	[sec]	3	3	

\* depending on profile and thickness

**Table 3: Key Properties of DARA<sup>®</sup> 2000 & 2003 with Glass Matt 04:**

Attributes	Unit	DARA <sup>®</sup> 2003	DARA <sup>®</sup> 2000	
		Typical values*		
Backweb Thickness	[mm]	0.35	0.40	
Porosity	[%]	70	70	
Electrical Resistance	[ $\Omega$ cm <sup>2</sup> ]	0.11	0.12	
Acid Displacement	[ml/m <sup>2</sup> ]	165	185	
Wettability	[sec]	3	3	

\* depending on profile and thickness



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