

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

DARAK 2000 & 2003

Table 1: DARAK® 2000 & 2003 separator size range*

Attributes	Unit	DARAK® 2003	DARAK® 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

* DARAK® separators can be tailor-made to fit into any cell

**DARAK® separators also available with other glass mat thicknesses

Table 2: Key Properties of DARAK® 2000 & 2003

Attributes	Unit	DARAK® 2003	DARAK® 2000
		Typical values*	
Backweb Thickness	[mm]	0.35	0.40
Porosity	[%]	70	70
Electrical Resistance	[Ω cm ²]	0.08	0.09
Acid Displacement	[ml/m ²]	140	160
Wettability	[sec]	3	3

* depending on profile and thickness

Table 3: Key Properties of DARAK® 2000 & 2003 with Glass Matt 04:

Attributes	Unit	DARAK® 2003	DARAK® 2000
		Typical values*	
Backweb Thickness	[mm]	0.35	0.40
Porosity	[%]	70	70
Electrical Resistance	[Ω cm ²]	0.11	0.12
Acid Displacement	[ml/m ²]	165	185
Wettability	[sec]	3	3

* depending on profile and thickness



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