sgl carbon

SIGRACELL® battery additives

Highly conductive carbon additives for lead acid batteries

SIGRACELL battery additives are medium to high surface area carbons designed to increase the performance of advanced lead acid batteries by offering following advantages:

- Signiþcant improvement of Dynamic Charge Acceptance (DCA)
- High cycling stability during high rate partial state of charge
- High purity, especially very low levels of metal impurities
- Excellent wettability
- Easy to mix into the lead paste
- Combination with conductive carbon blacks possible

↑ SIGRACELL DCA-Performance additives

Material data of SIGRACELL® battery additives

			Expanded graphite	Synthetic graphite	
Typical properties		Units	GFG20 HP	SG2µ	SG4µ
	D_{10}	µm	7	1	2
	D_{50}	µm	20	2	4
Particle size distribution	D_{90}	µm	67	4	7
Speciþc surface area	BET	m²/g	23	30 – 40	15 – 20
Ash content		%	< 1.0	< 0.05	< 0.05
	Cd	ppm	< 1.0	< 0.1	< 0.1
	Cr	ppm	< 5.0	< 1.0	< 1.0
	Cu	ppm	< 5.0	< 0.5	< 0.5
	Fe	ppm	< 150	< 30	< 30
	Mn	ppm	< 5.0	< 0.5	< 0.5
	Mo	ppm	< 0.5	< 0.5	< 0.5
	Ni	ppm	< 5.0	< 2.0	< 2.0
Selected elements	W	ppm	< 1.0	< 0.3	< 0.3

More detailed parameters like test of lead afþnity and water consumption results are available on request. Please contact us!

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