

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:

- Significant 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

Typical properties	Units	Expanded graphite		Synthetic graphite	
		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
Specific surface area	BET	m ² /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 affinity and water consumption results are available on request. Please contact us!



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TDS BA.00

03 2019/0 E Printed in Germany
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