

SIGRACELL® GFG HP battery additives

Highly conductive graphite additives for lead acid batteries

SIGRACELL GFG HP is a high purity powder made of expanded natural graphite. It is an optimal performance and conductivity additive for advanced lead acid batteries.

Benefits and properties

- High purity powder (purity $\geq 99.7\%$)
- Reduces formation of lead sulfate layer on negative plate surface
- Avoids drop of battery capacity
- Enhances cycle life especially under high-rate partial state of charge (HRPSoC) conditions, which are relevant to hybrid and electric vehicles
- Improves dynamic charge acceptance (DCA)



↑ SIGRACELL GFG HP battery additives

Material data of SIGRACELL® GFG HP

Typical properties	Units	GFG5 HP	GFG20 HP
Particle size D_{50} ¹⁾	μm	5	20
Specific surface area (BET)	m^2/g	35	30
Powder density ²⁾	g/l	150	120
Purity	%	≥ 99.7	≥ 99.7
Ash content	%	≤ 0.3	≤ 0.3
Moisture	w.t.%	≤ 1.5	≤ 1.5

¹⁾ Particle size screening by laser diffraction (in line with ISO 13220); D_{50} : Approx. 50 % of the particles are smaller/larger in size [volume %]

²⁾ Determined in line with DIN 51705

Unless stated otherwise, all values are valid at room temperature, typical, non-binding and subject to change. For engineering or design purposes please contact our technical sales team.



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TDS BA_GFG HP.00

03 2021/0 E Printed in Germany

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