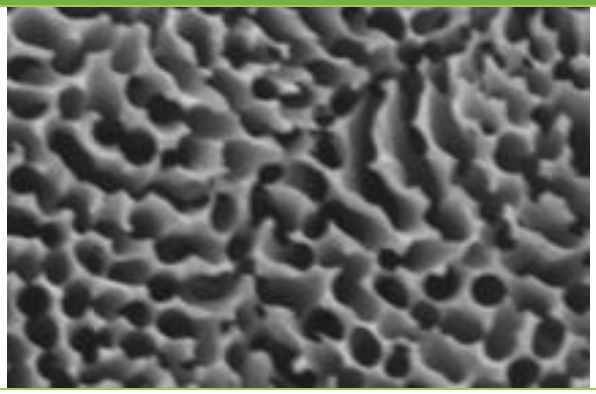
Product sheet

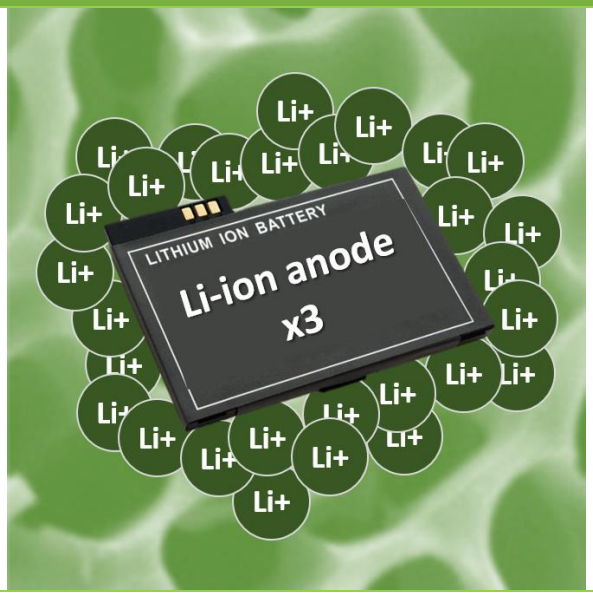
E-magy™ nano sponge powder

A porous silicon nano powder that enables higher Li-ion battery anode energy densities without charge-discharge degradation

Features	Application
Micro size particles with a nano sponge structure inside, which accommodates the charge/discharge expansion Basic porosity of about 50%, micrometer particle sizes in the range of 15-50 µm Premium performance, enabling increased energy densities of 1000mAh/g and above	For application in the anodes of various cell types and battery applications in the Li-ion battery anode market Competitive cost compared to the incumbent Carbon materials A drop in material in existing anode supply chain

Imagination

E-magy™ nano sponge structure	E-magy™ nano sponge powder
	

Li-ion battery capacity +30%	Li-ion battery anode density x3
	

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E-magy technology and materials

RGS casting process	E-magy material manufacturing
	

References

Reference institutes	RGS Development B.V.
TU Delft cea MESA+ INSTITUTE FOR NANOTECHNOLOGY	

Services

Qualification	Manufacturing	Technology service
Prototyping and optimization Particle finetuning and validation, based on industrial scale processing	Incubation manufacturing 100t facility capacity available	Technology licensing and transfer

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