

TECHNICAL DATA SHEET

September 2015

C-ENERGY™ SFG6L

TIMCAL Graphite

Graphite as additive
for lithium-ion batteries

General Characteristics

Formula: Carbon
Aspect: Fine black powder
CAS number: 7782-42-5

Standard Packaging

10 kg paper bags, 39 bags on one pallet (390 kg)

Guaranteed Values

Carbon content (dry)	99.98	% min
Ash	0.02	% max
Moisture	0.25	% max
Crystallite Height	60	nm min
Interlayer Distance	0.3354-0.3360	Nm
Fe	30	ppm
D90 (Laser Diffraction)	5.5-7.5	µm

Typical Values

Purity

Ash	0.01	%
Moisture	0.1	%
Al	4	ppm
As	<0.5	ppm
Ca	30	ppm
Co	<1	ppm
Cr	<1	ppm
Cu	<1	ppm
Fe	10	ppm
Mo	<1	ppm
Ni	2	ppm
Pb	<2	ppm
Sb	<0.1	ppm
Si	30	ppm
Ti	5	ppm
V	5	ppm
S	20	ppm
Zn	2	ppm
Cl ⁻	5	ppm
F ⁻	5	ppm
NO ₃ ⁻	5	ppm
SO ₄ ²⁻	25	ppm

Crystallinity

Lc	100	nm
c/2	0.3357	nm

Density

Scott	0.05	g/cm ³
Xylene	2.26	g/cm ³

Specific Surface Area

BET	17	m ² /g
-----	----	-------------------

Particle Size Distribution

<u>Laser Diffraction</u>		
D10	1.7	µm
D50	3.5	µm
D90	6.8	µm

Imerys Graphite & Carbon Switzerland Ltd.
Strada Industriale 12 – 6743 – Bodio – Switzerland
Tel: +41 91 873 20 10 – Fax: +41 91 873 20 19 – www.imerys-graphite-and-carbon.com

Imerys Graphite & Carbon is a trademark of the Imerys Group

This product is in compliance with the EC Directive 2002/95/CE (Restriction Of Hazardous Substances, RoHS).
The information contained herein is believed to be correct. However, no warranty is made, either expressed or implied regarding the accuracy or the results to be obtained from the use of such information.
The user assumes all risk and liability for intellectual property infringement and no statement(s) made in relation to this material is intended or shall be construed as inducing infringement of a valid patent.