

Customer: Canada Carbon

P.O.#

185 Concession Street, Lakefield Ontario, K0L 2H0 CANADA

Date: 13-Jun-2014

Job #

S0EME165

Customer ID: Crystalline Graphite (as received)

Sample ID:

S140612126

(14/16) F6+48 mesh Conc +48 MESH

[Rev: 2014-06-13 21:44:20]

Element	Concentration [ppm wt]	Element	Concentration [ppm wt]
Li	0.05	Ag	< 0.1
Be	< 0.05	Cd	< 1
B	1	In	< 0.05
C	Matrix	Sn	< 0.05
F	5	Sb	< 0.05
Na	15	Te	< 0.05
Mg	< 0.5	I	< 0.05
Al	150	Cs	< 0.05
Si	2000	Ba	< 0.05
P	1.5	La	< 0.05
S	15	Ce	< 0.05
Cl	0.9	Pr	< 0.05
K	3	Nd	< 0.05
Ca	100	Sm	< 0.05
Sc	< 0.05	Eu	< 0.05
Ti	0.6	Gd	< 0.05
V	0.05	Tb	< 0.05
Cr	0.1	Dy	< 0.05
Mn	1	Ho	< 0.05
Fe	150	Er	< 0.05
Co	0.1	Tm	< 0.05
Ni	2	Yb	< 0.05
Cu	0.4	Lu	< 0.05
Zn	0.7	Hf	< 0.05
Ga	< 0.05	Ta	< 10
Ge	< 0.05	W	0.5
As	< 0.05	Re	< 0.05
Se	< 0.5	Os	< 0.05
Br	< 0.05	Ir	< 0.05
Rb	< 0.05	Pt	< 0.5
Sr	0.3	Au	< 0.5
Y	< 0.05	Hg	< 0.5
Zr	< 0.05	Tl	< 0.05
Nb	< 0.5	Pb	0.05
Mo	< 0.1	Bi	< 0.05
Ru	< 0.5	Th	< 0.01
Rh	< 0.1	U	< 0.01
Pd	< 0.5		

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Analyzed according to WI F rev. 12/06/12

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Precision and bias typical of GDMS measurements are discussed under ASTM F1593.
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P.O.#

185 Concession Street, Lakefield Ontario, K0L 2H0 CANADA

Date: 13-Jun-2014

Job #

S0EME165

Customer ID: **Crystalline Graphite (HT in inert gas, 10 min)** Sample ID: S140612126
(14/16) F6+48 mesh Conc +48 MESH

[Rev: 2014-06-13 21:44:29]

Element	Concentration [ppm wt]	Element	Concentration [ppm wt]
Li	< 0.05	Ag	< 0.1
Be	< 0.05	Cd	< 1
B	1	In	< 0.05
C	Matrix	Sn	< 0.05
F	0.7	Sb	< 0.05
Na	2	Te	< 0.05
Mg	< 0.5	I	0.05
Al	3	Cs	< 0.05
Si	900	Ba	< 0.05
P	0.3	La	< 0.05
S	25	Ce	< 0.05
Cl	0.4	Pr	< 0.05
K	0.8	Nd	< 0.05
Ca	3	Sm	< 0.05
Sc	< 0.05	Eu	< 0.05
Ti	0.9	Gd	< 0.05
V	< 0.05	Tb	< 0.05
Cr	0.5	Dy	< 0.05
Mn	< 0.05	Ho	< 0.05
Fe	10	Er	< 0.05
Co	0.6	Tm	< 0.05
Ni	4	Yb	< 0.05
Cu	0.5	Lu	< 0.05
Zn	0.8	Hf	< 0.05
Ga	< 0.05	Ta	< 10
Ge	< 0.05	W	0.5
As	< 0.05	Re	< 0.05
Se	< 0.5	Os	< 0.05
Br	< 0.05	Ir	< 0.05
Rb	< 0.05	Pt	< 0.5
Sr	< 0.1	Au	< 0.5
Y	< 0.05	Hg	< 0.5
Zr	< 0.05	Tl	< 0.05
Nb	< 0.5	Pb	< 0.05
Mo	< 0.1	Bi	< 0.05
Ru	< 0.5	Th	< 0.01
Rh	< 0.1	U	< 0.01
Pd	< 0.5		

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Job #

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Customer ID: **Crystalline Graphite (as received)**

Sample ID:

S140612127

(13/16) F6+48 mesh Conc +32 MESH

[Rev: 2014-06-13 21:44:35]

Element	Concentration [ppm wt]	Element	Concentration [ppm wt]
Li	0.07	Ag	< 0.1
Be	< 0.05	Cd	< 1
B	1.5	In	< 0.05
C	Matrix	Sn	< 0.05
F	5	Sb	< 0.05
Na	20	Te	< 0.05
Mg	< 0.5	I	< 0.05
Al	200	Cs	< 0.05
Si	1800	Ba	< 0.05
P	1.7	La	< 0.05
S	15	Ce	< 0.05
Cl	1	Pr	< 0.05
K	3	Nd	< 0.05
Ca	55	Sm	< 0.05
Sc	< 0.05	Eu	< 0.05
Ti	0.2	Gd	< 0.05
V	< 0.05	Tb	< 0.05
Cr	0.2	Dy	< 0.05
Mn	0.7	Ho	< 0.05
Fe	90	Er	< 0.05
Co	0.08	Tm	< 0.05
Ni	1	Yb	< 0.05
Cu	0.2	Lu	< 0.05
Zn	0.6	Hf	< 0.05
Ga	< 0.05	Ta	< 10
Ge	< 0.05	W	0.07
As	< 0.05	Re	< 0.05
Se	< 0.5	Os	< 0.05
Br	< 0.05	Ir	< 0.05
Rb	< 0.05	Pt	< 0.5
Sr	0.5	Au	< 0.5
Y	< 0.05	Hg	< 0.5
Zr	< 0.05	Tl	< 0.05
Nb	< 0.5	Pb	0.06
Mo	< 0.1	Bi	< 0.05
Ru	< 0.5	Th	< 0.01
Rh	< 0.1	U	< 0.01
Pd	< 0.5		

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Date: 13-Jun-2014

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Customer ID: **Crystalline Graphite (HT inert gas, 10 min)**
(13/16) F6+48 mesh Conc +32 MESH

Sample ID:

S140612127

[Rev: 2014-06-13 21:44:42]

Element	Concentration [ppm wt]	Element	Concentration [ppm wt]
Li	< 0.05	Ag	< 0.1
Be	< 0.05	Cd	< 1
B	2	In	< 0.05
C	Matrix	Sn	< 0.05
F	0.7	Sb	< 0.05
Na	1	Te	< 0.05
Mg	< 0.5	I	< 0.05
Al	5	Cs	< 0.05
Si	1700	Ba	< 0.05
P	0.5	La	< 0.05
S	10	Ce	< 0.05
Cl	0.2	Pr	< 0.05
K	0.5	Nd	< 0.05
Ca	3	Sm	< 0.05
Sc	< 0.05	Eu	< 0.05
Ti	0.5	Gd	< 0.05
V	< 0.05	Tb	< 0.05
Cr	0.2	Dy	< 0.05
Mn	< 0.05	Ho	< 0.05
Fe	2.5	Er	< 0.05
Co	0.1	Tm	< 0.05
Ni	0.7	Yb	< 0.05
Cu	0.1	Lu	< 0.05
Zn	0.5	Hf	< 0.05
Ga	< 0.05	Ta	< 10
Ge	< 0.05	W	0.5
As	< 0.05	Re	< 0.05
Se	< 0.5	Os	< 0.05
Br	< 0.05	Ir	< 0.05
Rb	< 0.05	Pt	< 0.5
Sr	< 0.1	Au	< 0.5
Y	< 0.05	Hg	< 0.5
Zr	< 0.05	Tl	< 0.05
Nb	< 0.5	Pb	< 0.05
Mo	< 0.1	Bi	< 0.05
Ru	< 0.5	Th	< 0.01
Rh	< 0.1	U	< 0.01
Pd	< 0.5		

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Date: 13-Jun-2014

Job #

S0EME165

Customer ID: **Crystalline Graphite (as received)**

Sample ID:

S140612128

(1/16) F6+80 mesh 3rd Clnr Con +65MESH

[Rev: 2014-06-13 21:44:49]

Element	Concentration [ppm wt]	Element	Concentration [ppm wt]
Li	0.05	Ag	< 0.1
Be	< 0.05	Cd	< 1
B	0.5	In	< 0.05
C	Matrix	Sn	< 0.05
F	5	Sb	< 0.05
Na	7.5	Te	< 0.05
Mg	< 0.5	I	< 0.05
Al	75	Cs	< 0.05
Si	700	Ba	< 0.05
P	0.9	La	< 0.05
S	13	Ce	< 0.05
Cl	1	Pr	< 0.05
K	3	Nd	< 0.05
Ca	30	Sm	< 0.05
Sc	< 0.05	Eu	< 0.05
Ti	0.3	Gd	< 0.05
V	0.05	Tb	< 0.05
Cr	0.15	Dy	< 0.05
Mn	0.8	Ho	< 0.05
Fe	95	Er	< 0.05
Co	0.07	Tm	< 0.05
Ni	1	Yb	< 0.05
Cu	0.25	Lu	< 0.05
Zn	0.6	Hf	< 0.05
Ga	< 0.05	Ta	< 10
Ge	< 0.05	W	< 0.05
As	< 0.05	Re	< 0.05
Se	< 0.5	Os	< 0.05
Br	< 0.05	Ir	< 0.05
Rb	< 0.05	Pt	< 0.5
Sr	< 0.1	Au	< 0.5
Y	< 0.05	Hg	< 0.5
Zr	< 0.05	Tl	< 0.05
Nb	< 0.5	Pb	< 0.05
Mo	< 0.1	Bi	< 0.05
Ru	< 0.5	Th	< 0.01
Rh	< 0.1	U	< 0.01
Pd	< 0.5		

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Date: 13-Jun-2014

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S0EME165

Customer ID: Crystalline Graphite (HT inert gas, 10 min)

Sample ID:

S140612128

(1/16) F6+80 mesh 3rd Clnr Con +65MESH

[Rev: 2014-06-13 21:44:56]

Element	Concentration [ppm wt]	Element	Concentration [ppm wt]
Li	< 0.05	Ag	< 0.1
Be	< 0.05	Cd	< 1
B	0.7	In	< 0.05
C	Matrix	Sn	< 0.05
F	0.7	Sb	< 0.05
Na	1.5	Te	< 0.05
Mg	< 0.5	I	< 0.05
Al	5	Cs	< 0.05
Si	150	Ba	< 0.05
P	0.4	La	< 0.05
S	10	Ce	< 0.05
Cl	0.2	Pr	< 0.05
K	0.5	Nd	< 0.05
Ca	2	Sm	< 0.05
Sc	< 0.05	Eu	< 0.05
Ti	0.2	Gd	< 0.05
V	< 0.05	Tb	< 0.05
Cr	0.2	Dy	< 0.05
Mn	< 0.05	Ho	< 0.05
Fe	50	Er	< 0.05
Co	0.1	Tm	< 0.05
Ni	3	Yb	< 0.05
Cu	0.15	Lu	< 0.05
Zn	1	Hf	< 0.05
Ga	< 0.05	Ta	< 10
Ge	< 0.05	W	0.2
As	< 0.05	Re	< 0.05
Se	< 0.5	Os	< 0.05
Br	< 0.05	Ir	< 0.05
Rb	< 0.05	Pt	< 0.5
Sr	< 0.1	Au	< 0.5
Y	< 0.05	Hg	< 0.5
Zr	< 0.05	Tl	< 0.05
Nb	-	Pb	< 0.05
Mo	< 0.1	Bi	< 0.05
Ru	< 0.5	Th	< 0.01
Rh	< 0.1	U	< 0.01
Pd	< 0.5		

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