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Typical Sample Data (Non-coat powder)

OSAKA Titanium technologies Co., Ltd.

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1) Metal Impurity Concentration

(unit ppmw)

ICP -AES

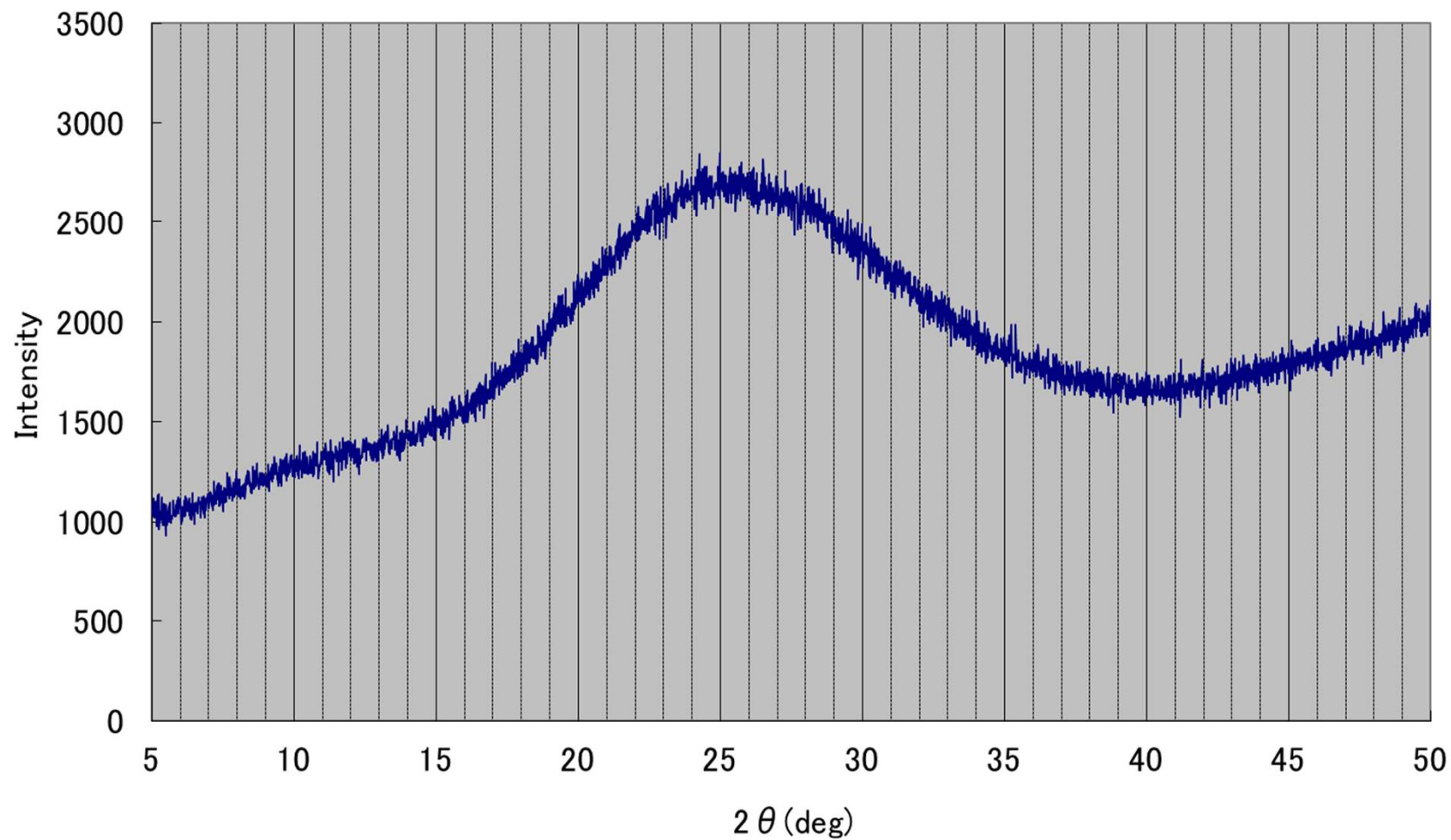
lot No.	Fe	Ni	Cu	Cr	Al	Mg	Ti	Zn	Zr	Co	Mn
BP140109-1	14	<1	1	<1	11	3	<1	<1	129	<1	31

2) BET specific surface area

Lot No	BET
BP140109-1	6.3m ² /g

3) XRD

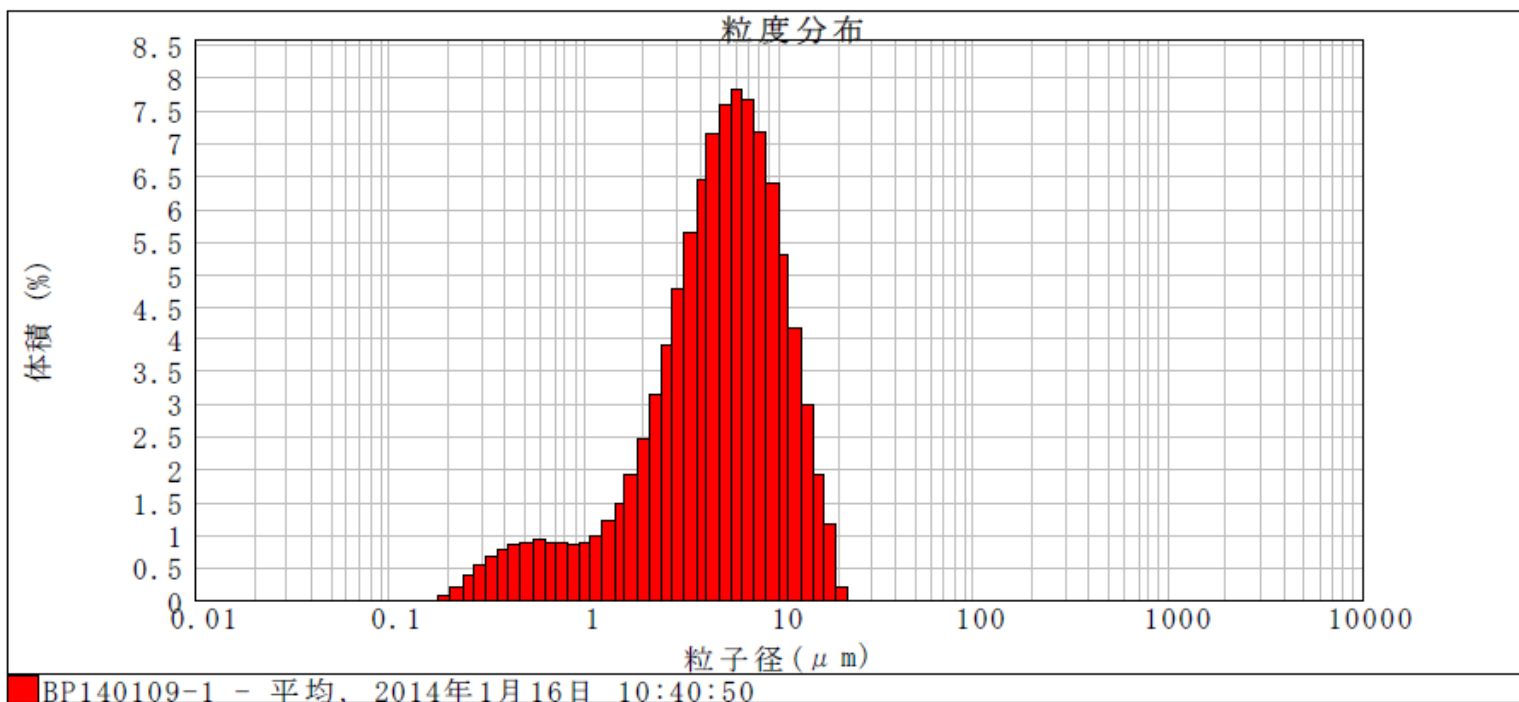
BP140109-1

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5) Particle Size Distribution

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Malvern mastersizer 2000



lot No.	D10	D50	D90	D99	$\leq 2\mu\text{m}$
BP140109-1	1.3 μm	5.2 μm	11.6 μm	18 μm	15.1%

Cell Characteristic

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Preparation

Cathode: SiO:KB:PI = 80:5:15

Cu plate (35 μ m), ϕ 11mm

Anode: Li, ϕ 13mm

Cell type: 2032

Electrolyte: EC:DEC=1:1

Electrode wt: 3.5~4.5 mg/cm²

Charge/Discharge Condition

Charge

1st CC-CV 0.1C 5mV-50 μ A

2nd CC-CV 0.3C 5mV-50 μ A

3rd CC-CV 0.5C 5mV-50 μ A

Discharge

CC 0.1C 1.5V

CC 0.3C 1.5V

CC 0.5C 1.5V

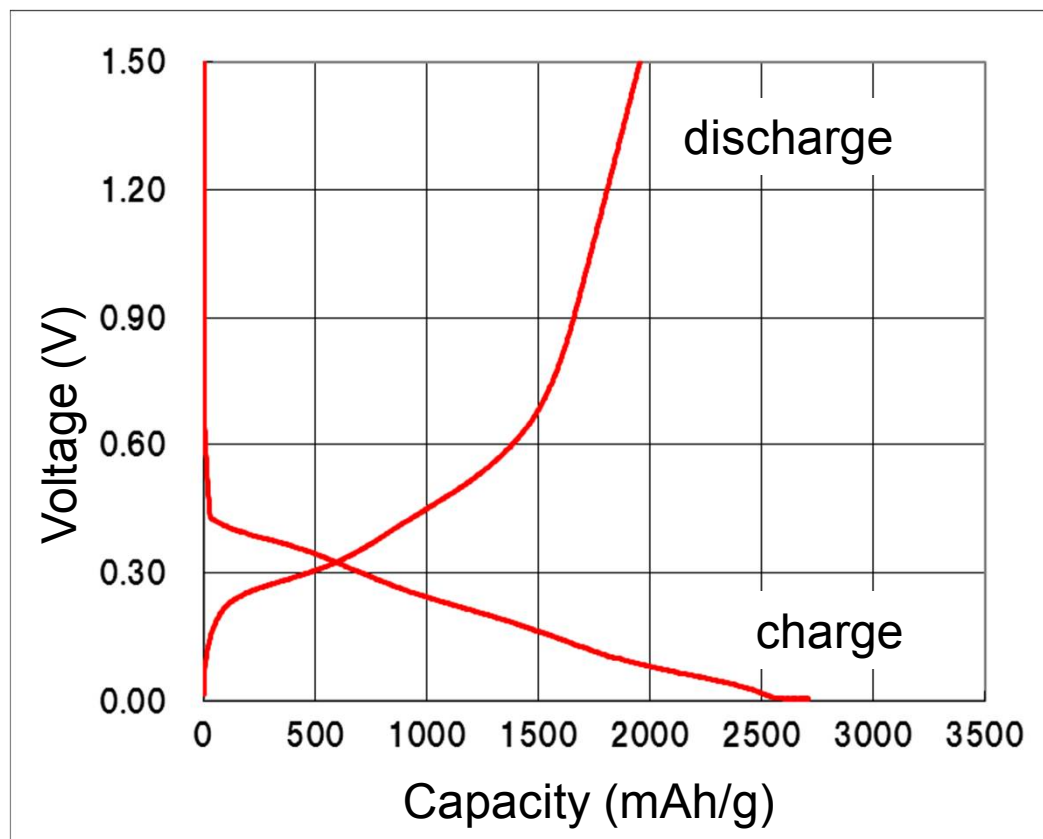
SiO=1500 mAh/g in calculation

Lot No.	1 st Charge [mAh/g]	1 st Discharge [mAh/g]	1 st Efficiency [%]	Rate Characteristic* [%]
BP140109-1	2707	1953	72.1%	94.0

* 3cycle Discharge/1cycle charge

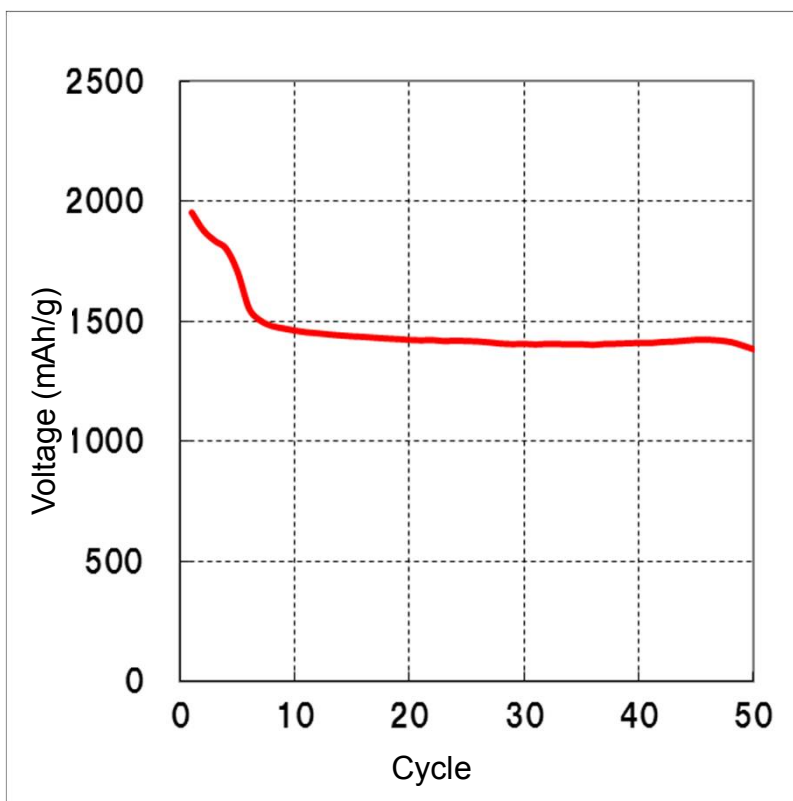
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1st Charge/Discharge Behavior



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Discharge Capacity



Discharge Capacity Retention Rate

