Shin-Etsu Magnetics Inc.

739 Roosevelt Road
Building 6, Suite 215
Glen Ellyn, IL 60137
TEL: (630) 858-9340
FAX: (630) 858-9341

Date December 7, 2006

Contact Name Michael Oprondeck
Customer Argonne National Labratory
Address Bldg 210, OCF PRO,
9700 S. Cass Avenue
City, State, Zip Argonne, Illinois 60436

Subject: Lot Certification – ANL Lot #30/SMI Lot #16003151-01-03

Dear Mr. Oprondeck,

Shin-Etsu certifies that the magnets in this lot have been processed and inspected in accordance with Argonne's S.O.W. as specified in the following sections:

Section 4.1.2.3 – Stabilization

Section 4.1.3 – Surface Finish

Section 4.3.1 – Physical Measurements

Additionally, we have attached a copy of the related inspection data for this lot.

Please direct any inquiries regarding this data to my attention. You may contact me at the numbers listed.

Sincerely,
Shin-Etsu Magnetics Inc.

Brad Lucas
Sales Manager, Midwest

cc: Shin-Etsu: T. Yokoyama, E. Saenz
ANL: M. Oprondek
Subcontractor: Metalex Manufacturing Inc..

Shin-Etsu

Shin-Etsu Rare Earth Magnets

検 査 表 INSPECTION REPORT

発行日: Issued Date: 05/12/2006

需要家名: Customer: ARGONNE NATIONAL LABORATORY

品名: Material: SEREM N39UH

品名コード: Our Code No.: 300000

図面No.: Our Dwg.No.:

需要家注文No.: Customer's P/O No.: 5A-06868

需要家図面No.: Customer's Dwg.No.: L143-110106 REV.04

指図No.: Our P/O No.: 1600315101-03

数量: Quantity: 470 PCS

単位重量: Unit Weight: 255.0g pc

磁化方向: Magnetization Through: T

着磁有無: Magnetization: MAGNETIZED

極表示: Marking:

寸法: Dimension:

66.000L	57.000W	9.000T
+0.250	+0.050	+0.000
-0.250	-0.050	-0.100

磁気特性: Magnetic Properties:

Br	[T]	1.2286
	[G]	12286
H_{cJ}	[kA m]	2221
	[Oe]	27906
H_{cB}	[kA m]	956
	[Oe]	12016
(BH)max	[kJ m^3]	295.3
	[MGOe]	37.1

その他特性: Additional Specification:

備考: Notes:

PACKING LIST

(CARTON NO.)	(QUANTITIES)	(NET WEIGHT)	(GROSS WEIGHT)
1	12	3.00	4.1
-			
39			
40	2	.50	3.1
TOTAL	470	117.50	163.0

SIZE OF CARTON (CM)... 41X31X15.5

総合判定: Judgment: Passed

承認: Approved by: C. Kurosaki

担当: Checked by: J. Kawamoto

信越化学工業株式会社 **Shin-Etsu Chemical Co.,Ltd.**

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HQ Electronics Materials Division:6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo, Japan
Magnet Department……TEL:+81-3-3246-5246 FAX:+81-3-3246-5367

武生工場:〒915-8515 福井県越前市北府2-1-5
品質保証部……TEL:(0778)21-8116 FAX:(0778)21-8134

Takefu Plant:1-5, Kitago 2-chome, Echizen-shi, Fukui, Japan
Q. A. Department……TEL:+81-778-21-8116 FAX:+81-778-21-8134