

**Product Specifications****Model No.:GP1604A**

Document Number: RPKS 9002

Revision : 0

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**1. APPLICABILITY**

This specification is applicable to GP Super Alkaline grade batteries, (GP model no. : GP1604A).

**2. TYPE**

Six layers built alkaline manganese batteries.

**3. NOMINAL VOLTAGE**

9 Volts.

**4. TERMINALS**

Nickel plated miniature snap fasteners.

**5. SHELL**

Printed metal jacket.

**6. IDENTIFICATION**

Expiry code of 4 digits will be printed on the bottom of each battery .

**7. QUALITY REQUIREMENT****7.1 Conventions:**

- n = Number of batteries to be tested.
- c = Permissible number of defects.
- k = Actual number of defects.
- x = Average of (n-k) good result.
- N0 = Test within 3 months of delivery.
- N12 = Test within 12 months of manufacture code.
- N18 = Test within 18 months of manufacture code.
- N36 = Test within 36 months of manufacture code.

**7.2 Test conditions:**

- 7.2.1 All tests (Voltage, Storage, Service life etc) shall be performed at ambient temperature of  $25 \pm 2^{\circ}\text{C}$  and relative humidity of  $60 \pm 15\%$ .
- 7.2.2 Voltmeter shall has resolution of  $\pm 0.01\text{ V}$  and with internal impedance of  $1\text{ M}\Omega$  minimum.
- 7.2.3 Unless otherwise stated, samples for acceptance testing shall be selected per MIL-STD-105E, LEVEL II normal inspection.

**7.3 Open circuit voltage [OCV]**

	Minimum voltage	AQL
N0	9.30V	0.65%
N12	9.20V	0.65%
N36	8.70V	0.65%

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7.4 Closed circuit voltage [CCV] (Load 47Ω for 0.3 seconds).

	Minimum voltage	AQL
N0	7.60V	0.65%
N12	7.40V	0.65%
N36	7.25V	0.65%

7.5 Service life (Batteries tested shall comply with either one of the following requirements.)

7.5.1 Requirements

Resistance	Discharge duration	End Voltage	SPECIFICATIONS (Hrs)					
			N0		N12		N36	
			Mean	Min	Mean	Min	Mean	Min
180Ω	Continuous	5.40V	12.0	9.6	10.8	8.7	10.0	7.8
	30 min/day	4.80V	12.5	9.6	11.2	8.7	10.5	7.8
270Ω	1hr/day	5.40V	18.0	16.5	16.2	14.8	14.6	13.4
620Ω	2hrs/day	5.40V	45.0	40.5	40.5	36.5	36.5	32.9

7.5.2 n=10, c=1. In case of k=2, one retest is allowed.

7.6 External leakage

7.6.1 No battery shall leak during the service life tests before the end point voltage is reached.

7.6.2 For undischarged batteries.

	AQL
N0	0.65%
N12	0.65%
N18	0.65%

7.7 Appearance

	AQL
Major defects	0.65%
Minor defects	0.65%

Major defects 1) Loose or damaged terminals  
2) Incorrect polarity.  
3) Visible rust on metal parts.

Minor defects 1) Substandard appearance.  
2) Heavy scratches.  
3) Serious deformation.  
4) Serious displacement of artworks.

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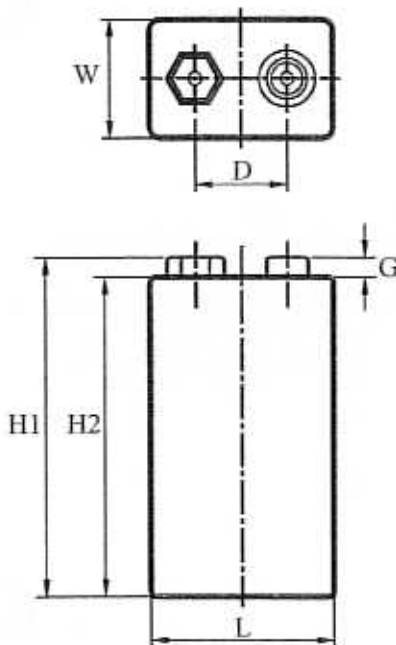
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**8. CONTENT OF MERCURY AND CADMIUM**

- 8.1 Mercury - 1ppm maximum per battery weight.
- 8.2 Cadmium - 1ppm maximum per battery weight.

**9. BATTERY DIMENSIONS**

Dimensions



UNIT : mm

L: 25.5 ± 1.0

W: 16.5 ± 1.0

H1: 47.5 ± 1.0

H2: 44.7 ± 1.5

D: 12.7 ± 0.25

G: 1.78mm (Min.)

Dimensions shown are  
IEC/ANSI Standard.

MS. TAKADA  
N. MR Imanishi / SANYO Singapore

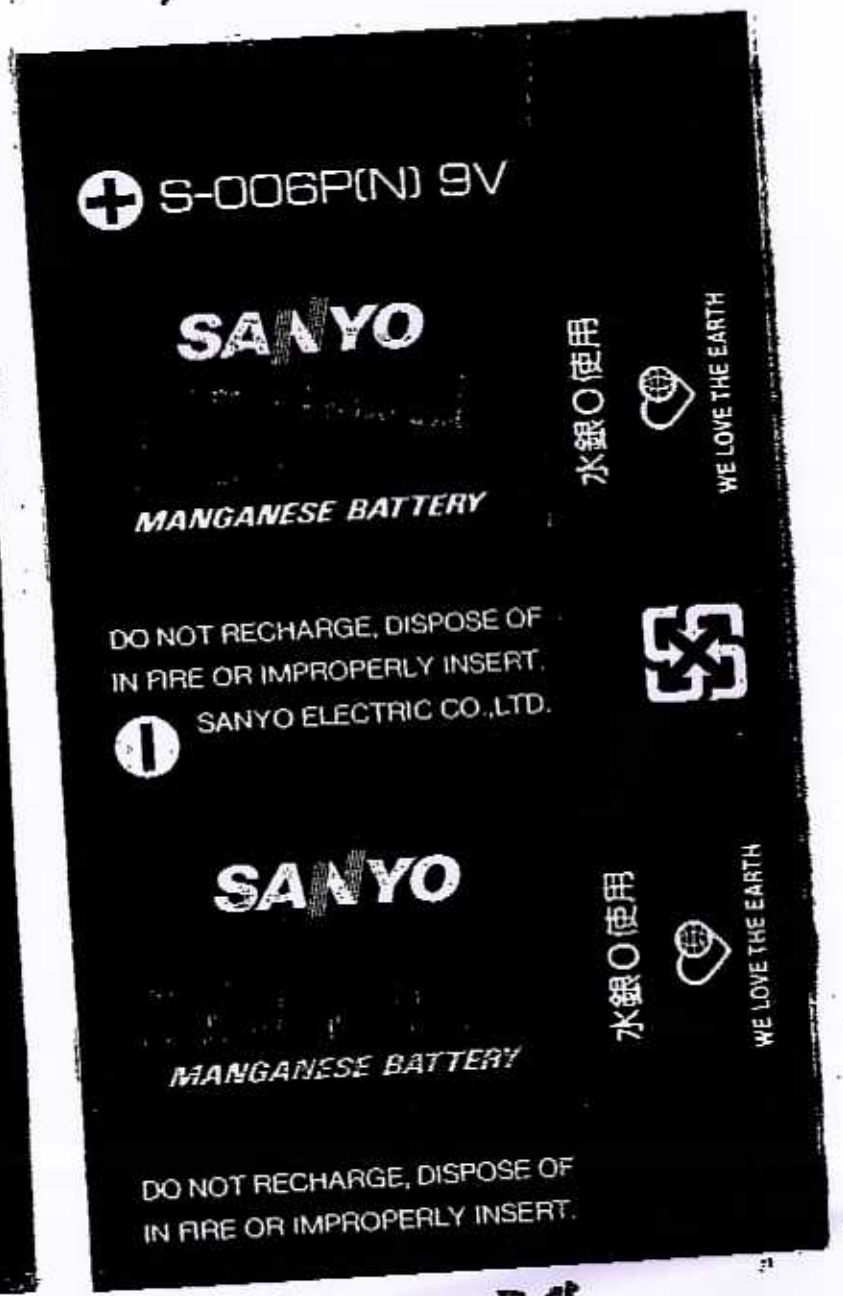
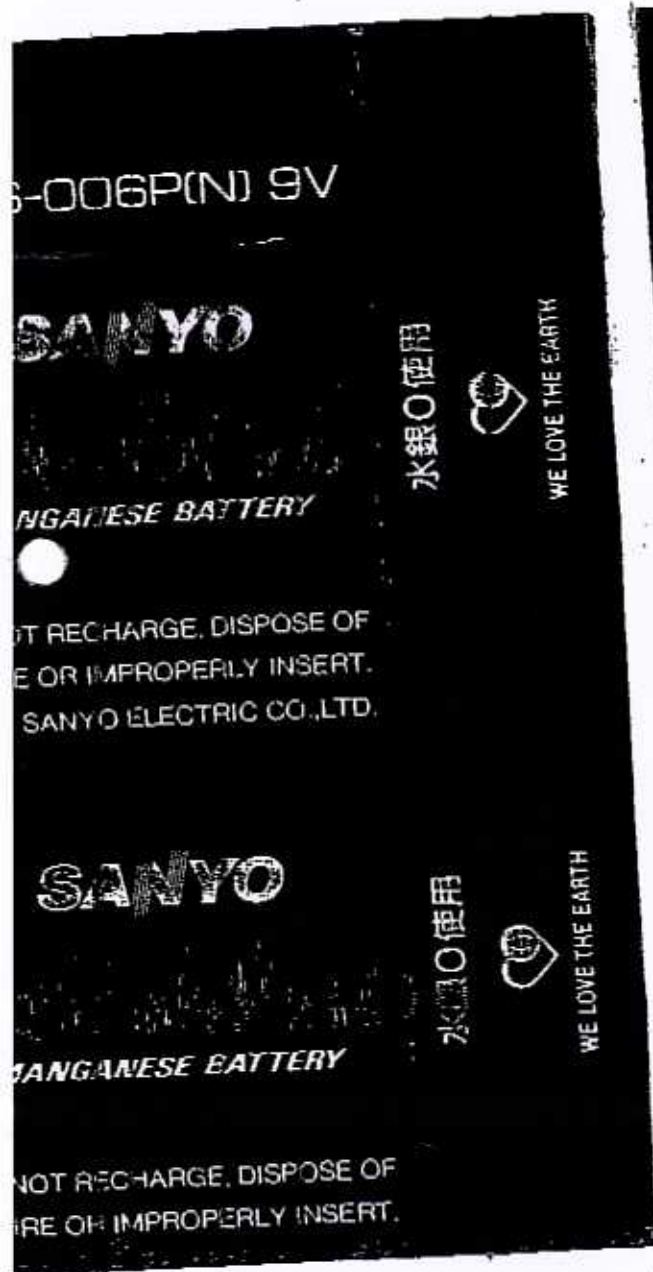
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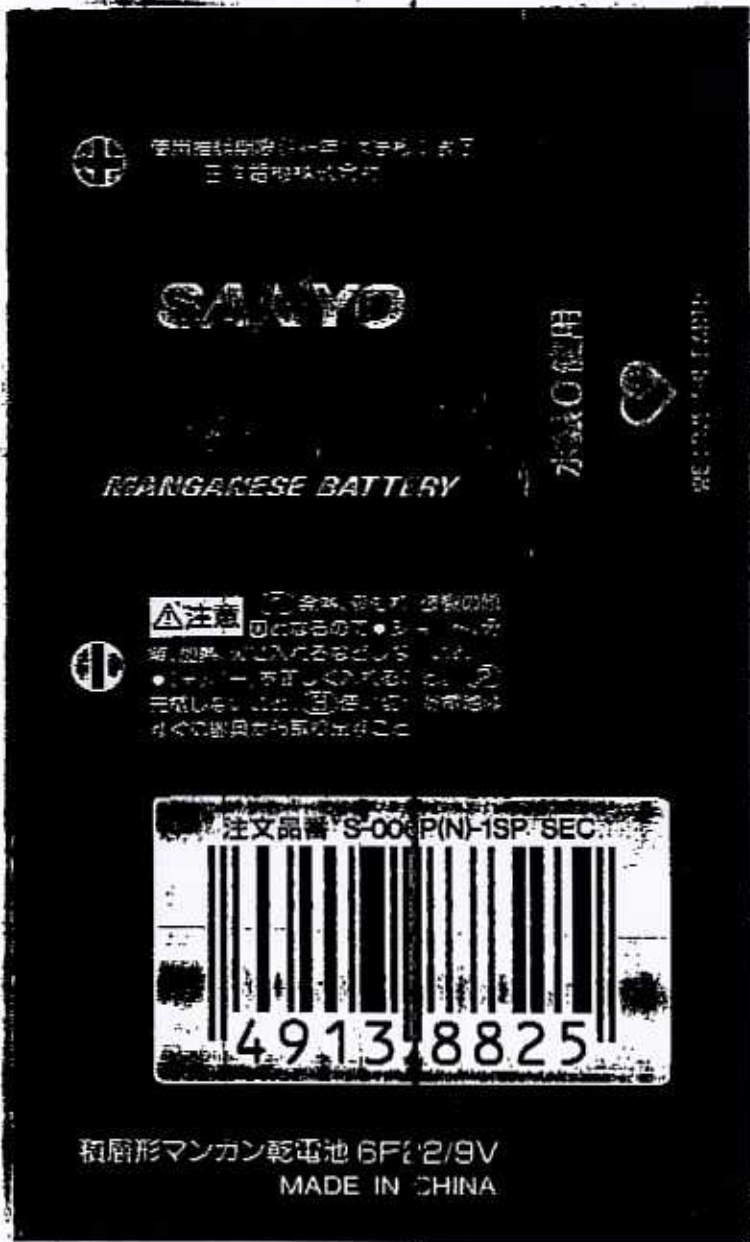


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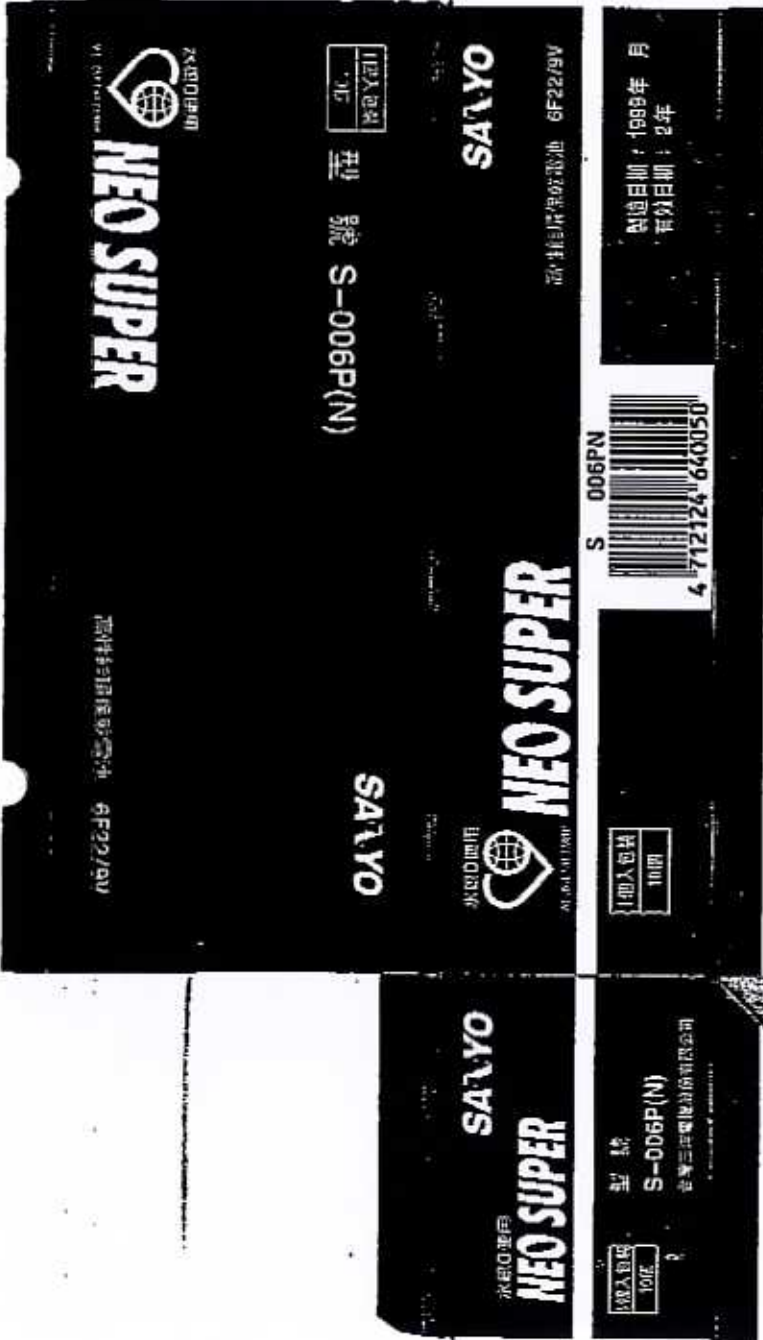
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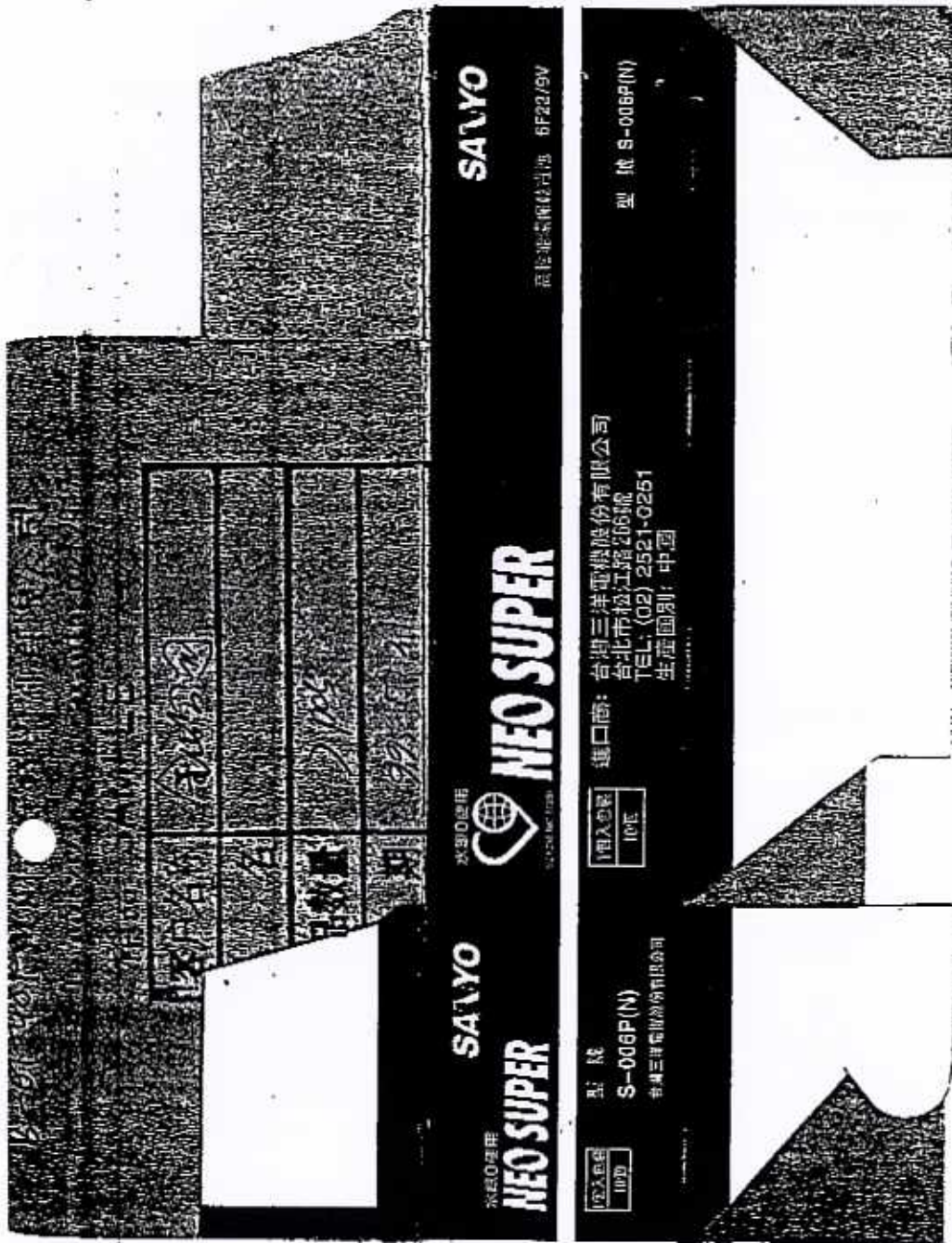
Z grade

(0 (9E)

箱紙 紙張70cm BOX



B-01-482



SAIYO

三洋電機株式會社 6F22/9V

SAIYO



NEO SUPER

NEO SUPER

輸入品  
1070

輸入品  
1070

型 號  
S-006P(N)  
三洋電機株式會社

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台北市松江路266號  
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生產國別：中國

型 號 S-006P(N)



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NEO SUPER

水銀0使用  
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積層形マンガン乾電池(黒) 6F22/9V

積層  
10/10  
10個  
注文品番 S-006P(N)-1SP

積層  
10/10  
10個  
1個入ツェリツク

166141500  
注文品番 S-006P(N)-1SP

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