Subject: Change of Silica Gel Indicator

Dear Customer,

Please be advised that the silica gel indicator we use for our semiconductor package will be changed as mentioned below.

Customer is kindly requested to approve the change.

Thank you for your cooperation in advance.

Sincerely

1. Objective products

Semiconductor products of which package contains silica gel indicator (Part of semiconductor products for PC, ASIC, customized LSI, discrete devices and memories)

2. Contents of change

- 1) Abolition of 3-, 5-, 6-point indicator (*)
- 2) Reduction of cobalt chloride in silica gel (Cobalt chloride-free silica gel **) -- Refer to Appendix 1
- 3) Integration of silica gel and indicator (integrated silica gel *) Refer to Appendix 2 and 3
- 4) Reduction of cobalt chloride in indicator -- Refer to Appendix 1 and 2
- 5) Change of silica gel amount resulting from Reduction of cobalt chloride in silica gel and integration of silica gel and indicator -- Refer to Appendix 3
 - *: 3-, 5-, 6-point indicators are abolished for the use because that indicator is stuck to silica gel (cobalt chloride free) (Single indicator is abolished.)
 - ** : A part of our semiconductor product packages have already been free from cobalt chloride.

 This time all silica gel will become free from cobalt chloride.

3. Reason for change

For the compliance with environment protection. (Cobalt chloride free + Reduction of cobalt chloride amount)

4. Schedule of change

Currently used silica gel will be changed from September 2007 one after another.

When the inventory of old type silica gel has run out, new type silica gel is used.

In that case, the semiconductor products will be delivered to customer with old type silica gel and new type silica gel mixed.

Customer is kindly requested to approve the mixture.

5. Inquiry to

Toshiba Corporation, Semiconductor Company, Tatsuya, Yamada
 Packing And Logistics Engineering Group, Advanced Packaging Engineering Dept.
 Process & Manufacturing Engineering Center

Thank you very much for your kind understanding and cooperation. Best Regards.

TOSHIBA CORPORATIN Semiconductor Company

Takuya Sawano Takuya Sawano

Group Manager, Packing And Logistics Engineering Group, Advanced Packaging Engineering Dept.

Process & Manufacturing Engineering Center

Explanation of change contents

1. Cobalt chloride contents

Curren	t product (Silica	Gel 20g)	•	
Silica gel		Indicator	Reduction method of cobalt chloride	
20g	5g×4	3-point	Packaging is classified into following 2 types. ① Only silica gel filled in moisture proof bag.	
	chloride s 0.085%	HUMIDITY INDICATOR 40 % NIL HI 30 WEAD AT LAVENDER BETWEEN PINK & BLUE Cobalt chloride contents 0.35%	 Substitute for cobalt chloride of moisture detecting gel → Use of cobalt chloride-free material Silica gel and indicator filled in moisture proof bag Silica gel··· Substitute for cobalt chloride of moisture detecting gel → Use of cobalt chloride-free material Indicator···3-point type → 30%, 1-point → Reduction of cobalt chloride to half Integration of indicator and silica gel by sticking (increasing total mass) and reduction of cobalt chloride contents to less than 0.01% 	

Explanation of change contents

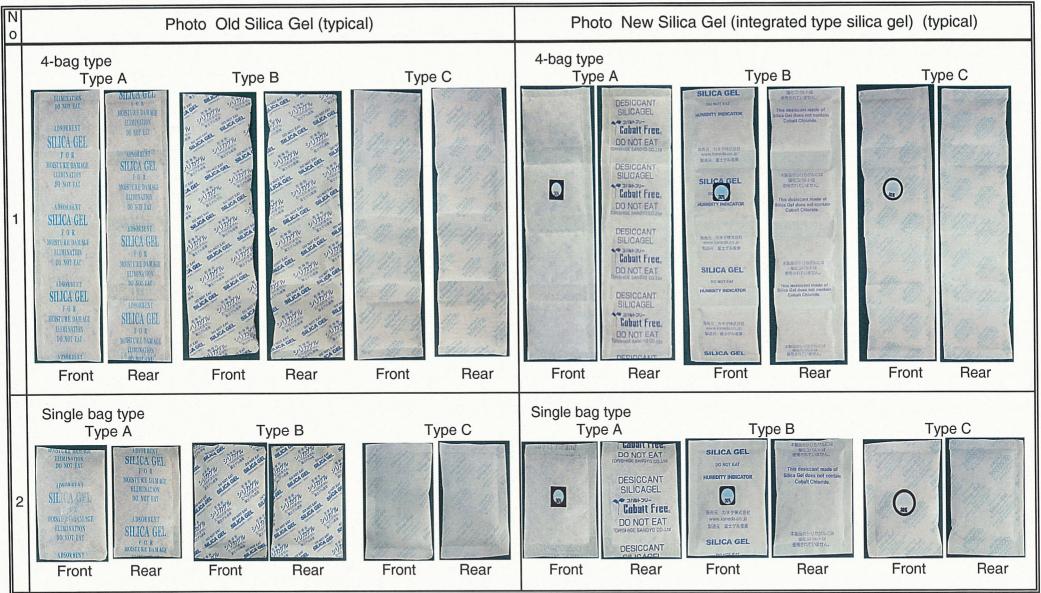
2. Specification of silica gel indicator

(V.,)	Current produc	t	Integrated silica gel			
Indicator	Front	Rear	Front		Rear	
HUMIDITY INDICATOR 40 80 80 READ AT LAVENDER BETWEEN PINK & BLUE	And the state of t	September 1997	Indicator		Silica gel	
Cobalt chloride			Cobalt chloride			
	Contents	Content (%)		Contents	Content (%)	
Silica gel	0.018g	0.085%	Silica gel	0.000g	0.000%	
Indicator	0.003g	0.350%	Indicator	0.002g	2.960%	
			Total	0.002g	0.007%	

Note) Above photo shows 20g type silica gel.

Explanation of change contents

3. Photos of New and Old Silica Gels



Note) (1) There are several types of silica gel bag as silica gel is supplied by several suppliers. (2) 2-bag type is also provided.

4. Change of contained weight of silica gel

① A part of silica gel bags containing 3, 5, 10g silica gel (including cobalt chloride) is changed to integrated type 15g silica gel bag.