

Intertek Testing Services Ltd., Shanghai TFH Division Block B, Jinling Business Square,No.801 Yi Shan Road, Shanghai, China, 200233 Tel: +86 21 6120 6565 Fax: +86 21 6127 9740 E-mail: labtest.shanghai@intertek.com www.intertek.com www.intertek.com.cn China Toll-Free: 800 999 1338

## TEST REPORT

NUMBER: SHAH00058694

DATE: MAY 27, 2008

APPLICANT: BEIFA GROUP CO., LTD. NO.298, JIANGNAN EAST ROAD, NINGBO, ZHEJIANG, CHINA. ATTN: CANDY

SAMPLE DESCRIPTION: TWENTY SIX (26) STYLES OF SUBMITTED SAMPLE SAID TO BE : : JS 30 GEL PENS ITEM NAME ITEM NO. : GA1030. : NOT SPECIFIED. LABELLED AGE GROUP PACKAGING PROVIDED BY : NO. APPLICANT SUPPLIER : BEIFA GROUP CO., LTD. : SAINSBURY'S. BUYER GOODS EXPORTED TO : UK. COUNTRY OF ORIGIN : CHINA. TESTS CONDUCTED: AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S) 

TO BE CONTINUED

PREPARED AND CHECKED BY: FOR INTERTEK TESTING SERVICES LTD., SHANGHAI

PETER YU SENIOR MANAGER AUTHORIZED BY: FOR INTERTEK TESTING SERVICES LTD., SHANGHAI

stephen

STEPHEN TSANG GENERAL MANAGER



TEST REPORT

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CONCLUSION: TESTED SAMPLES SUBMITTED SAMPLE	STANDARD EN71 PART 1 : 2005 AND A4 : 2007 FOR MECHANICAL AND PHYSICAL PROPERTIES EXCLUDING CLAUSE 7.1 & 7.2	RESULT PASS
	EN71 PART 2 : 2006 + A1 : 2007 FLAMMABILITY TEST	PASS
ALL TESTED COMPONENTS OF SUBMITTED SAMPLE	EN71 PART 3 : 1994 AND AMENDMENT A1 : 2000 AND AC : 2002	PASS
	U.K. PENCILS AND GRAPHIC INSTRUMENTS (SAFETY) REGULATIONS 1998 (S.I. 2406) FOR TOXIC ELEMENTS TEST	PASS
END CLOSURE OF SUBMITTED SAMPLE	BS7272-2: 2000 WRITING AND MARKING INSTRUMENTS - PART 2: SPECIFICATION FOR END CLOSURES <b>EXCLUDING</b> CLAUSE 7 - IDENTIFICATION	PASS
CAPS OF SUBMITTED SAMPLE	BS 7272-1: 2000 WRITING AND MARKING INSTRUMENTS - PART 1: SPECIFICATION FOR SAFETY CAPS <b>EXCLUDING</b> CLAUSE 4 - IDENTIFICATION	PASS
END CLOSURE OF CAP OF SUBMITTED SAMPLE	INSTRUMENTS - PART 2: SPECIFICATION FOR END CLOSURES <b>EXCLUDING</b> CLAUSE 7 - IDENTIFICATION	
******************	**************************************	******** ONTINUED

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TESTS CONDUCTED

1 MECHANICAL AND PHYSICAL TEST

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71-1 : 2005 + A4 : 2007.

APPLICANT'S SPECIFIED AGE GROUP FOR TESTING : FOR AGES 3 & UP.

CLAUSE	TESTING ITEMS	ASSESSMENT
4*	GENERAL REQUIREMENTS	Р
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	NA
6	PACKAGING	NA
7	WARNINGS AND INSTRUCTIONS FOR USE	#

REMARK : P = PASS NA = NOT APPLICABLE

- \* = THE FOLLOWING SUBCLAUSES OF CLAUSE 4 OF THE STANDARD WERE APPLICABLE : -
  - 1) 4.1 MATERIALS CLEANLINESS VISUAL EXAMINATION.
  - 2) 4.7 EDGES.
  - 3) 4.8 POINTS AND WIRES.
- # = THE ATTENTION OF THE APPLICANT WAS DRAWN TO THE NEED FOR THE ITEM TO BE LABELLED WITH THE NAME AND ADDRESS OF THE IMPORTER IN EEC ON THE TOY OR ON ITS PACKAGING TOGETHER WITH A CE-MARKING AS SPECIFIED IN CLAUSE 7.1. IF THIS INFORMATION WAS NOT FIXED TO THE TOY ITSELF, IT SHOULD BE ACCOMPANIED BY A NOTICE IN ADVISING THE PURCHASER TO RETAIN IT.
- REMARK: THE ATTENTION OF THE APPLICANT WAS DRAWN TO THE NEED FOR THE ITEM TO BE LABELLED AN AGE WARNING STATEMENT TOGETHER WITH A BRIEF INDICATION OF THE HAZARD EITHER ON THE TOY OR ITS FINAL PACKAGING AS SPECIFIED IN CLAUSE 7.2, AS SMALL PART WAS FOUND ON THE SUBMITTED SAMPLE.



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#### 2 FLAMMABILITY TEST

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2 : 2006 + A1 : 2007.

CLAUSE	TESTING ITEMS	ASSESSMENT
4.1	GENERAL	P
4.2	TOYS TO BE WORN ON THE HEAD	NA
4.3	TOY DISGUISE COSTUMES AND TOYS INTENDED TO BE WORN BY A CHILD IN PLAY	NA
4.4	TOYS INTENDED TO BE ENTERED BY A CHILD	NA
4.5	SOFT FILLED TOYS (ANIMAL AND DOLLS ETC.) WITH A PILED OR TEXTILE SURFACE	NA

REMARK : P = PASS NA = NOT APPLICABLE

#### 3 TOXIC ELEMENTS ANALYSIS

SOL. ARSENIC (As)

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 3 : 1994 AND AMENDMENT A1 : 2000 AND AC : 2002, ACID EXTRACTION METHOD WAS USED AND TOXIC ELEMENTS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

			RE	ESULT :	IN mg/	kg			LIMIT
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	mg/kg
SOL. BARIUM (Ba)	<5	40	<5	<5	110	<5	<5	<5	1000
SOL. LEAD (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	90
SOL. CADMIUM (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	75
SOL. ANTIMONY (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	60
SOL. SELENIUM (Se)	<5	<5	<5	<5	<5	<5	<5	<5	500
SOL. CHROMIUM (Cr)	<5	<5	<5	<5	<5	<5	<5	<5	60
SOL. MERCURY (Hg)	<5	<5	<5	<5	<5	<5	<5	<5	60
SOL. ARSENIC (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25
			RE	ESULT :	IN mg/	kg			LIMIT
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	mg/kg
SOL. BARIUM (Ba)	<5	<5	<5	<5	<5	<5	<5	<5	1000
SOL. LEAD (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	90
SOL. CADMIUM (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	75
SOL. ANTIMONY (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	60
SOL. SELENIUM (Se)	<5	<5	<5	<5	<5	<5	<5	<5	500
SOL. CHROMIUM (Cr)	<5	<5	<5	<5	<5	<5	<5	<5	60
SOL. MERCURY (Hg)	<5	<5	<5	<5	<5	<5	<5	<5	60



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SOL. SOL. SOL.	BARIUM (Ba) LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se)	(17) 16 <5 <5 8 <5	(18) <5 <5 <5 <5 <5 <5	RE (19) 107 <5 <5 <5 <5	2SULT 2 (20) <5 <5 <5 <5 <5 <5	IN mg// (21) <5 <5 <5 <5 <5 <5	kg (22) <5 <5 <5 <5 <5 <5	(23) <5 <5 <5 <5 <5 <5	(24) <5 <5 <5 <5 <5 <5	LIMIT mg/kg 1000 90 75 60 500
SOL. SOL.	CHROMIUM (Cr) MERCURY (Hg)	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	60 60
SOL.	ARSENIC (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25
		(25)	(26)	<u>RE</u> (27)	SULT (28)	[N mg/] (29)	<u>kg</u> (30)	(31)	(32)	<u>LIMIT</u> mg/kg
SOL.	BARIUM (Ba)	116	42	<5	<5	<5	<5	<5	<5	1000
SOL.	LEAD (Pb)	<5	<5	11	17	<5	<5	<5	10	90
SOL.	CADMIUM (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	75
	ANTIMONY (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	60
	SELENIUM (Se)	<5	<5	<5	<5	<5	<5	<5	<5	500
	CHROMIUM (Cr)	<5	<5	<5	<5	<5	<5	<5	<5	60
	MERCURY (Hg)	<5	<5	<5	<5	<5	< 5	<5	<5	60
SOL.	ARSENIC (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25
				-	SULT I				<i>(</i> ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	LIMIT
<b>607</b>		(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	mg/kg
	BARIUM (Ba)	<5	<5	(35) <5	(36) <5	(37) <5	(38) <5	<5	<5	<u>mg/kg</u> 1000
SOL.	LEAD (Pb)	<5 <5	<5 9	(35) <5 <5	(36) <5 5	(37) <5 <5	(38) <5 <5	<5 19	<5 <5	<u>mg/kg</u> 1000 90
SOL. SOL.	LEAD (Pb) CADMIUM (Cd)	<5 <5 <5	<5 9 <5	(35) <5 <5 <5	(36) <5 5 <5	(37) <5 <5 <5	(38) <5 <5 <5	<5 19 <5	<5 <5 <5	<u>mg/kg</u> 1000 90 75
SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb)	<5 <5 <5 <5	<5 9 <5 <5	(35) <5 <5 <5 <5	(36) <5 <5 <5 <5	(37) <5 <5 <5 <5	(38) <5 <5 <5 <5	<5 19 <5 <5	<5 <5 <5 <5	<u>mg/kg</u> 1000 90 75 60
SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se)	<5 <5 <5 <5 <5	<5 9 <5 <5 <5	(35) <5 <5 <5 <5 <5	(36) <5 <5 <5 <5 <5	(37) <5 <5 <5 <5 <5	(38) <5 <5 <5 <5 <5 <5	<5 19 <5 <5 <5	<5 <5 <5 <5 <5	<u>mg/kg</u> 1000 90 75 60 500
SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr)	<5 <5 <5 <5 <5 <5	<5 9 <5 <5 <5 <5	(35) <5 <5 <5 <5 <5 <5 <5	(36) <5 <5 <5 <5 <5 <5 <5	(37) <5 <5 <5 <5 <5 <5 <5 <5	(38) <5 <5 <5 <5 <5 <5 <5	<5 19 <5 <5 <5 <5	< 5 < 5 < 5 < 5 < 5 < 5	<u>mg/kg</u> 1000 90 75 60 500 60
SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se)	<5 <5 <5 <5 <5	<5 9 <5 <5 <5	(35) <5 <5 <5 <5 <5	(36) <5 <5 <5 <5 <5	(37) <5 <5 <5 <5 <5	(38) <5 <5 <5 <5 <5	<5 19 <5 <5 <5	<5 <5 <5 <5 <5	<u>mg/kg</u> 1000 90 75 60 500
SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg)	<5 <5 <5 <5 <5 <5 <5	<5 9 <5 <5 <5 <5 <5	(35) <5 <5 <5 <5 <5 <5 <5 <2.5	(36) <5 <5 <5 <5 <5 <5 <2.5	(37) <5 <5 <5 <5 <5 <5 <2.5	(38) <5 <5 <5 <5 <5 <5 <5 <2.5	<5 19 <5 <5 <5 <5 <5	< 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5	<u>mg/kg</u> 1000 90 75 60 500 60 60 25
SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg)	<5 <5 <5 <5 <5 <5 <5	<5 9 <5 <5 <5 <5 <5	(35) <5 <5 <5 <5 <5 <5 <5 <2.5	(36) <5 <5 <5 <5 <5 <5 <5 <5	(37) <5 <5 <5 <5 <5 <5 <2.5	(38) <5 <5 <5 <5 <5 <5 <5 <2.5	<5 19 <5 <5 <5 <5 <5	< 5 < 5 < 5 < 5 < 5 < 5 < 5 < 5	mg/kg 1000 90 75 60 500 60 60 25 LIMIT
SOL. SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg)	<5 <5 <5 <5 <5 <5 <5 <2.5	<5 9 <5 <5 <5 <5 <5 <2.5	(35) <5 <5 <5 <5 <5 <5 <2.5 RE (43)	(36) <5 <5 <5 <5 <5 <2.5 SULT	(37) <5 <5 <5 <5 <5 <2.5 [N mg/2 (45)	(38) <5 <5 <5 <5 <5 <5 <2.5 <u>kg</u>	<5 19 <5 <5 <5 <5 <5 <2.5	<5 <5 <5 <5 <5 <5 <2.5	mg/kg 1000 90 75 60 500 60 60 25 LIMIT mg/kg
SOL. SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg) ARSENIC (As)	<5 <5 <5 <5 <5 <5 <2.5 (41)	<5 9 <5 <5 <5 <5 <2.5 (42)	(35) <5 <5 <5 <5 <5 <5 <2.5 RE (43)	(36) <5 5 <5 <5 <5 <2.5 SULT (44) <5	(37) <5 <5 <5 <5 <5 <2.5 [N mg/ (45) <5	(38) <5 <5 <5 <5 <5 <5 <2.5 kg (46) <5	<5 19 <5 <5 <5 <5 <2.5 (47)	<5 <5 <5 <5 <5 <2.5 (48) <5	<u>mg/kg</u> 1000 90 75 60 500 60 60 25 <u>LIMIT</u> mg/kg
SOL. SOL. SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg) ARSENIC (As) BARIUM (Ba)	<5 <5 <5 <5 <5 <2.5 <41) <5	<5 9 <5 <5 <5 <2.5 (42) <5 <5	(35) <5 <5 <5 <5 <5 <2.5 (43) <5	(36) <5 5 <5 <5 <5 <2.5 SULT 5 (44) <5 <5 <5 <5	(37) <5 <5 <5 <5 <5 <2.5 [ <u>N mg/</u> (45) <5 <5 <5	(38) <5 <5 <5 <5 <5 <2.5 (46) <5 <5 <5 <5	<5 19 <5 <5 <5 <2.5 (47) <5 <5 <5 <5	<5 <5 <5 <5 <5 <2.5 (48) <5 <5 <5 <5	mg/kg 1000 90 75 60 500 60 60 25 <u>LIMIT</u> mg/kg 1000 90 75
SOL. SOL. SOL. SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg) ARSENIC (As) BARIUM (Ba) LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb)	<5 <5 <5 <5 <5 <2.5 (41) <5 7 <5 <5	<5 9 <5 <5 <5 <2.5 (42) <5 <5 <5 <5 <5	(35) <5 <5 <5 <5 <5 <2.5 <2.5 (43) <5 <5 <5 <5 <5	(36) <5 <5 <5 <5 <5 <2.5 SULT (44) <5 <5 <5 <5 <5	(37) <5 <5 <5 <5 <5 <2.5 [N mg/2 (45) <5 <5 <5 <5 <5	(38) <5 <5 <5 <5 <5 <2.5 <2.5 kg (46) <5 <5 <5 <5 <5 <5	<5 19 <5 <5 <5 <2.5 (47) <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <2.5 (48) <5 <5 <5 <5 <5	mg/kg 1000 90 75 60 500 60 25 <u>LIMIT</u> mg/kg 1000 90 75 60
SOL. SOL. SOL. SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg) ARSENIC (As) BARIUM (Ba) LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se)	<5 <5 <5 <5 <5 <2.5 (41) <5 <7 <5 <5 <5	<5 9 <5 <5 <5 <2.5 (42) <5 <5 <5 <5 <5 <5	(35) <5 <5 <5 <5 <5 <2.5 <2.5 (43) <5 <5 <5 <5 <5 <5	(36) <5 <5 <5 <5 <5 <2.5 SULT 5 (44) <5 <5 <5 <5 <5 <5	(37) <5 <5 <5 <5 <5 <2.5 [N mg/2 (45) <5 <5 <5 <5 <5 <5	(38) <5 <5 <5 <5 <5 <2.5 <2.5 kg (46) <5 <5 <5 <5 <5 <5 <5	<5 19 <5 <5 <5 <2.5 (47) <5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <2.5 (48) <5 <5 <5 <5 <5 <5	mg/kg 1000 90 75 60 500 60 25 <u>LIMIT</u> mg/kg 1000 90 75 60 500
SOL. SOL. SOL. SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg) ARSENIC (As) BARIUM (Ba) LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr)	<5 <5 <5 <5 <5 <2.5 <2.5 (41) <5 <5 <5 <5 <5 <5	<5 9 <5 <5 <5 <2.5 (42) <5 <5 <5 <5 <5 <5 <5	(35) <5 <5 <5 <5 <5 <2.5 (43) <5 <5 <5 <5 <5 <5 <5 <5	(36) <5 <5 <5 <5 <2.5 <2.5 SULT 5 (44) <5 <5 <5 <5 <5 <5 <5 <5	(37) <5 <5 <5 <5 <5 <2.5 [N mg/ (45) <5 <5 <5 <5 <5 <5 <5 <5	(38) <5 <5 <5 <5 <5 <2.5 <2.5 (46) <5 <5 <5 <5 <5 <5 <5 <5 <5	<5 19 <5 <5 <5 <2.5 (47) <5 <5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <2.5 (48) <5 <5 <5 <5 <5 <5 <5	<u>mg/kg</u> 1000 90 75 60 500 60 25 <u>LIMIT</u> <u>mg/kg</u> 1000 90 75 60 500 60
SOL. SOL. SOL. SOL. SOL. SOL. SOL. SOL.	LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se) CHROMIUM (Cr) MERCURY (Hg) ARSENIC (As) BARIUM (Ba) LEAD (Pb) CADMIUM (Cd) ANTIMONY (Sb) SELENIUM (Se)	<5 <5 <5 <5 <5 <2.5 <2.5 (41) <5 <5 <5 <5 <5 <5 <5	<5 9 <5 <5 <5 <2.5 (42) <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	(35) <5 <5 <5 <5 <5 <2.5 <2.5 (43) <5 <5 <5 <5 <5 <5 <5 <5 <5	(36) <5 5 <5 <5 <5 <2.5 2.5 (44) <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	(37) <5 <5 <5 <5 <5 <2.5 (45) <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	(38) <5 <5 <5 <5 <5 <2.5 <2.5 (46) <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	<5 19 <5 <5 <5 <2.5 (47) <5 <5 <5 <5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <2.5 (48) <5 <5 <5 <5 <5 <5 <5 <5	mg/kg 1000 90 75 60 500 60 25 <u>LIMIT</u> mg/kg 1000 90 75 60 500



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TESTS CONDUCTED
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			RE	SULT I	IN mg/	kg			LIMIT
	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	mg/kg
SOL. BARIUM (Ba)	<5	<5	<5	<5	<5	<5	<5	6	1000
SOL. LEAD (Pb)	<5	10	<5	9	<5	<5	<5	17	90
SOL. CADMIUM (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	75
SOL. ANTIMONY (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	60
SOL. SELENIUM (Se)	<5	<5	<5	<5	<5	<5	<5	<5	500
SOL. CHROMIUM (Cr)	<5	<5	<5	<5	<5	<5	<5	<5	60
SOL. MERCURY (Hg)	<5	<5	<5	<5	<5	<5	<5	<5	60
SOL. ARSENIC (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25

SOL. = SOLUBLE < = LESS THAN mg/kg = MILLIGRAM PER KILOGRAM

#### TESTED COMPONENTS :

- (1) GREEN PLASTIC.
- (2) GRASS GREEN PLASTIC.
- (3) LIGHT GREEN PLASTIC.
- (4) DARK GREEN PLASTIC.
- (5) MIDDLE GREEN PLASTIC.
- (6) PURPLE PLASTIC.
- (7) DARK PURPLE PLASTIC.
- (8) LIGHT PURPLE PLASTIC.
- (9) MIDDLE PURPLE PLASTIC.
- (10) MIDDLE LIGHT PURPLE PLASTIC.
- (11) BLUE PLASTIC.
- (12) NAVY PLASTIC.
- (13) DARK BLUE PLASTIC.
- (14) LIGHT BLUE PLASTIC.
- (15) YELLOW PLASTIC.
- (16) DARK YELLOW PLASTIC.
- (17) GOLDEN COLOR PLASTIC.
- (18) RED PLASTIC.
- (19) LIGHT RED PLASTIC.
- (20) DARK RED PLASTIC.
- (21) GREY PLASTIC.
- (22) DARK GREY PLASTIC.
- (23) BLACK PLASTIC.
- (24) ROSE PLASTIC.
- (25) ORANGE PLASTIC.
- (26) LIGHT ORANGE PLASTIC.
- (27) GREEN INK.
- (28) GRASS GREEN INK.



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NUMBER: SHAH00058694

TESTS CONDUCTED

(29) LIGHT GREEN INK. (30) DARK GREEN INK. (31) MIDDLE GREEN INK. (32) PURPLE INK. (33) DARK PURPLE INK. (34) LIGHT PURPLE INK. (35) MIDDLE PURPLE INK. (36) MIDDLE LIGHT PURPLE INK. (37) BLUE INK. (38) NAVY INK. (39) DARK BLUE INK. (40) LIGHT BLUE INK. (41) YELLOW INK. (42) DARK YELLOW INK. (43) GOLDEN COLOR INK. (44) RED INK. (45) LIGHT RED INK. (46) DARK RED INK. (47) GREY INK. (48) DARK GREY INK. (49) BLACK INK. (50) ROSE INK. (51) ORANGE INK. (52) LIGHT ORANGE INK. (53) TRANSPARENT PLASTIC. (TUBE) (54) TRANSPARENT PLASTIC. (IN TUBE) (55) TRANSPARENT PLASTIC WITH SILVER GLITTER. (56) SILVER PLATTING ON PLASTIC. (SPL. WT. = 35mg)

#### 4 TOXIC ELEMENTS ANALYSIS

AS PER THE U.K. PENCILS & GRAPHIC INSTRUMENTS (SAFETY) REGULATIONS 1998 (S.I.2406), ACID EXTRACTION METHOD WAS USED AND TOXIC ELEMENTS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY AND HEXAVALENT CHROMIUM CONTENT WAS DETERMINED BY UV-VISIBLE SPECTROPHOTOMETRY.

			F	RESUL	T IN	mg/kg	3			LIMIT
	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	mg/kg
SOL. BARIUM (Ba)	<5	<5	<5	<5	<5	<5	<5	<5	<5	1000
SOL. LEAD (Pb)	11	17	<5	<5	<5	10	<5	9	<5	250
SOL. CADMIUM (Cd)	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
SOL. ANTIMONY (Sb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	250
SOL. CHROMIUM VI (Cr (VI))	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
SOL. MERCURY (Hg)	<5	<5	<5	<5	<5	<5	<5	<5	<5	100
SOL. ARSENIC (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	100



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#### TEST REPORT

#### NUMBER: SHAH00058694

TESTS CONDUCTED

SOL. BARIUM (Ba) SOL. LEAD (Pb) SOL. CADMIUM (Cd) SOL. ANTIMONY (Sb) SOL. CHROMIUM VI (Cr (VI)) SOL. MERCURY (Hg) SOL. ARSENIC (As)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>g</u> )
SOL. BARIUM (Ba) SOL. LEAD (Pb) SOL. CADMIUM (Cd) SOL. ANTIMONY (Sb) SOL. CHROMIUM VI (Cr (VI)) SOL. MERCURY (Hg) SOL. ARSENIC (As) mg/kg = MILLIGRAM PER KILO	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	g
<pre>Mig/kg = MilliokAM FER Kills SOL. = SOLUBLE &lt; = LESS THAN TESTED COMPONENTS : (27) GREEN INK. (28) GRASS GREEN INK. (29) LIGHT GREEN INK. (30) DARK GREEN INK. (30) DARK GREEN INK. (31) MIDDLE GREEN INK. (32) PURPLE INK. (33) DARK PURPLE INK. (34) LIGHT PURPLE INK. (35) MIDDLE PURPLE INK. (36) MIDDLE LIGHT PURPLE (37) BLUE INK. (38) NAVY INK. (39) DARK BLUE INK. (40) LIGHT BLUE INK. (40) LIGHT BLUE INK. (41) YELLOW INK. (42) DARK YELLOW INK. (42) DARK YELLOW INK. (43) GOLDEN COLOR INK. (44) RED INK. (45) LIGHT RED INK. (46) DARK RED INK. (47) GREY INK. (48) DARK GREY INK. (49) BLACK INK. (50) ROSE INK. (51) ORANGE INK. (52) LIGHT ORANGE INK.</pre>		



#### TEST REPORT

NUMBER: SHAH00058694

TESTS CONDUCTED

5 REQUIREMENTS FOR END CLOSURES IN WRITING AND MARKING INSTRUMENTS

With reference to BS 7272-2: 2000 writing and marking instruments - part 2: specification for end closures, the submitted sample was subjected to the following test:

Number of sample tested: five (5) pieces (A1 - A5).

Initial inspection: No any damage was found

Executive	summary:
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CLAUSE	TEST ITEMS	VERDICT
4.2	Size of end closure	#1
4.3	Security	#2
4.4	Inaccessibility	#3
4.5	Minimal protrusion	P #4
4.6	Air flow	NC
7	Identification	#9

Abbreviation: P=Pass NC=Not Conducted

Remark:

As specified in clause 4.1, the submitted sample would comply with this standard BS 7272-2 if any of the clauses 4.2, 4.3, 4.4, 4.5 or 4.6 of the standard was met.

# Note:

- #1 the end closure passed through a 16mm diameter ring gauge under its own weight, thus not complying with the requirement.
- #2 The end closure was removed when subjected to a force of 50N applied in line with the body of the writing or marking instruments, thus not complying with the requirement.
- #3 The end closure in the form of a plug was not completely recessed and removed when subjected to a force of 40N applied in line with the body of the writing or marking instruments., thus not complying with the requirement.
- #4 The grippable surface of the end closure in the form of a plug exceeded did not extend more than 1mm beyond the end of the writing or marking instrument and overall the end plug extended more than 3mm beyond the end of the writing/marking instrument, thus complying this requirement.

The tested end closure complied with this requirement.



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#### TEST REPORT

NUMBER: SHAH00058694

TESTS CONDUCTED

#### 6 REQUIREMENTS FOR SAFETY CAPS FOR WRITING AND MARKING INSTRUMENTS

With reference to BS 7272-1: 2000 specification for safety caps for

writing and marking instruments, the submitted sample was subjected to the following test:

Number of sample tested: five (5) pieces (A1 - A5).

Initial inspection: No any damage was found

#### Executive summary:

CLAUSE	TEST ITEMS	VERDICT
3.2	Cap size	#5
3.3	Ventilated caps vent area	NC
3.4	Ventilated caps air flow	P #6
4	Identification	#9

Abbreviation: P=Pass NC=Not Conducted

#### Remark:

As specified in clause 3.1, the cap would comply with the standard BS 7272-1 if any of the clauses 3.2, 3.3 or 3.4 of the standard was met. Note:

#5 Whole length of the tested cap could enter a 16mm diameter ring gauge along its main axis under its own weight, thus failing to comply this requirement.

#6 the forward air flow and backward air flow was measured as follows:

Sample ID	Forward air flow toward cap tip (Litre/min.)	Backward air flow from cap tip (Litre/min.)
A1	>8	>8
A2	>8	>8
A3	>8	>8
A4	>8	>8
A5	>8	>8

Requirement: Not less than 8 l/min measured at room temperature, with a maximum pressure drop of 1.33 kpa.

The tested cap complied with this requirement.



## TEST REPORT

NUMBER: SHAH00058694

TESTS CONDUCTED

7 REQUIREMENTS FOR END CLOSURES OF CAP IN WRITING AND MARKING INSTRUMENTS

With reference to BS 7272-2: 2000 writing and marking instruments - part 2: specification for end closures, the submitted sample was subjected to the following test:

Number of sample tested: five (5) pieces (A1 - A5).

Initial inspection: No any damage was found

Executive summary:

CLAUSE	TEST ITEMS	VERDICT
4.2	Size of end closure	#7
4.3	Security	P #8
4.4	Inaccessibility	NC
4.5	Minimal protrusion	NC
4.6	Air flow	NC
7	Identification	#9

Abbreviation: P=Pass NC=Not Conducted

Remark:

As specified in clause 4.1, the submitted sample would comply with this standard BS 7272-2 if any of the clauses 4.2, 4.3, 4.4, 4.5 or 4.6 of the standard was met.

# Note:

- #7 the end closure passed through a 16mm diameter ring gauge under its own weight, thus not complying with the requirement.
- #8 The end closure was not removed when subjected to a force of 50N applied in line with the body of the writing or marking instruments, thus complying with the requirement.

The tested end closure complied with this requirement.

#9 The applicant was drawn attention to identify the name, trade mark or other means of identifying the manufacturer/supplier legibly and indelibly on writing of marking instruments, or the packaging or accompanying documentation of the submitted sample.



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NUMBER: SHAH00058694

#### TEST REPORT

TESTS CONDUCTED



Samples as received

DATE SAMPLE RECEIVED : May 19, 2008 TESTING PERIOD : May 19, 2008 TO May 23, 2008

END OF REPORT