Jiaxing Yuhong technology Co., LTD	File name	Quality Standard book for Boutique box		for	File Number	YH-SJ-026	Version/ times	AO
	Formulation Department	QC Department	Set dates	2024-2-20	Revision date		Page code	Page 1
Formulate:				Reviewed:				

# 1. Purpose:

In order to pay better attention to and monitor the quality of the fine box, improve the quality of our products to meet the quality requirements of customers, this inspection standard is specially formulated.

# 2. Scope of application:

Adapt to the quality inspection and judgment of all the company's fine boxes, except for customers' special requirements.

# 3. Sampling plan:

Refer to (GB-2828.1-2012) "Sampling inspection standards" for single sampling

**AQL:** CR: 0 MAJ: 0.4 MIN: 1.0

#### 4. Test condition:

- 4.1 Tools: tape measure, straight ruler, film ruler, 3M adhesive paper, digital caliper and other related testing instruments.
- 4.2 Visual inspection: Under a 60W incandescent lamp, the eye is 30  $^{\sim}$  40CM away from the object to be tested for visual inspection.

# 5. Definition:

- 5.1 Serious defects: defects that affect the structure and function of the product or endanger the safety of the human body.
- 5.2 Major defects: refers to the defects that affect the appearance or performance of the product, but the product is still usable.
- 5.3 Minor defect: refers to the defect that affects the appearance or performance of the product, but the product is still usable.

- 5.4 Class A side: the main surface, that is, the product can be placed directly.
- 5.5 Class B side: side, back of the product vertical box body and front of the inner box.
- 5.6 Class C side: The bottom or other surface of the product vertical placement box body other than the A and B surfaces.

### 6. Metric code:

S: Square Meter(mm²) L: length (mm) N: number(个) D: distance (mm) W: width (mm) d: diameter (e.g., size of different color points diameter)

## 7. Standard content:

		Inspection	standards	Inspection tools	Bad	cate	gory
In	nspection Items	Generic version	High-end version	/ Instrument s	CR	MAJ	MIN
N	Material	1. The type and weight of face paper and backing paper are consistent with the work order.	1. The type and weight of face paper and backing paper are consistent with the work order.	Visual inspection Digital caliper		√	
		2. The gray board, cardboard are consistent with the work order.	2. The gray board, cardboard are consistent with the work order.	Visual		<b>√</b>	
	Text content pattern	Consistent with sample	Consistent with sample	Visual	<b>√</b>		
	Overprint	Grade A side error is allowed to be 0.2MM, grade B and C side error is allowed to be 0.25MM.	Grade A side error is allowed to be 0.1MM, Grade B and C side error is allowed to be 0.15MM, Special products according to customer specified requirements.	Film ruler Visual		√	
	Color difference	<ol> <li>the color difference of the trademark area refers to the standard sample, and the visual consistency with the sample.</li> <li>color difference reference standard sample office in other areas, no obvious visual difference.</li> </ol>	<ol> <li>visually consistent with the sample.</li> <li>if the customer has signed the limit sample can be accepted between the limit sample.</li> </ol>	Visual		√	

Prin	Flaws: Ink spots, White spots Dirty dots, pink dots	3, for the qualified color difference products, the same batch shipment must be consistent or consistent with the color of the board, and the slight color difference of the different board should be identified. 4, if the customer has signed the limit sample can be accepted between the limit sample.  Grade A side: trademark text pattern can not have; Other parts $d \le 0.4 \text{mm}$ , N $\le 1$ is acceptable.  Grade B side: text pattern part $d \le 0.7 \text{mm}$ , N $\le 1$ ; Other parts $d \le 1.0 \text{mm}$ , N $\le 1$ is acceptable.  Grade C side: not as control points, not visually obvious is acceptable.	Grade A side: the trademark text pattern shall not be  there; Other parts d≤ 0.3mm, N≤1 is acceptable.  Grade B side: text pattern part d≤0.4mm, N≤1; Other parts d≤ 0.5mm, N≤1 is acceptable.  Grade C side: D≤0.7mm and N≤1 for a single Logo are acceptable.  Other parts: d≤1mm, ignore 1 < d≤1.5mm,	Film ruler Visual		✓
ting		obvious is acceptable	$N \leqslant 4, \ \mbox{and} \ D \geqslant 15\mbox{mm}, \ \mbox{does} \ \mbox{not} \ \mbox{affect} \ \mbox{the}$ recognition acceptable.			
	Missing words, broken words	A, B side can not have, C side can be correctly identified.	A, B, C sides can not have.	Visual	√	
	Scratch, wipe, scratch: (provide d no base color is shown)	Grade A side: text pattern can not have; Other parts L $\leq$ 20 mm , W $\leq$ 0.15mm, N $\leq$ 1 acceptable. Grade B side: text pattern part L $\leq$ 10mm, W $\leq$ 0.10mm, N $\leq$ 1; Other parts L $\leq$ 30mm , W $\leq$ 0.25mm, N $\leq$ 2, D $\geq$ 100mm is acceptable. Grade C side: text pattern part L $\leq$ 15mm, W $\leq$ 0.15mm, N $\leq$ 1. Other parts L $\leq$ 40mm , W $\leq$ 0.35mm, N $\leq$ 3, D $\geq$ 100mm is acceptable.	Grade A side text pattern is not allowed; Other parts L $\leq$ 10 mm , W $\leq$ 0.1mm, N $\leq$ 1 is acceptable; Grade B side:text pattern part L $\leq$ 5mm, W $\leq$ 0.5mm, N $\leq$ 1; Other parts: L $\leq$ 20 mm , W $\leq$ 0.15mm, N $\leq$ 1, D $\geq$ 100mm is acceptable. Grade C side: text pattern part L $\leq$ 10mm, W $\leq$ 0.1mm, N $\leq$ 1. Other parts L $\leq$ 30mm , W $\leq$ 0.25mm, N $\leq$ 2, D $\geq$ 100mm is acceptable	Film ruler Visual		√
	Ink bars and water bars Ghosting , water	Grade A side: Not allowed. Grade B and C sides: 30cm not visually noticeable.	ABC sides: Not allowed.	Film ruler Visual		<b>√</b>

	Drying Large water Barcode			Barcode		
	scan	Can quickly and correctly read barcode numbers.	Can quickly and correctly read barcode numbers.	Scanner	√	
	Paper Patches	Grade A side: a single Logo d ≤ 0.5mm, N ≤ 1, is acceptable other parts: ①d≤0.8mm, N≤3, D≥15mm② 0.8mm < S≤1 mm, N≤2 is acceptable.  Grade B side: Outer surface: d≤0.5mm, N≤1 at a single Logo, acceptable; Other parts: ①d≤0.5mm ignore ②0.5mm < d≤0.8mm, N≤5, D≥15mm acceptable ③ 0.8mm < D≤1 mm, N≤3, D≥15mm acceptable.  Grade C side: a single Logo d≤0.5mm, N≤1, acceptable; Other parts ①d≤1.5mm is acceptable ②1.5mm < D≤2mm, N≤3, D≥15mm is acceptable.	Grade A side: a single Logo d $\leq$ 0.3mm, N $\leq$ 1, is acceptable other parts: ①d $\leq$ 0.5mm, N $\leq$ 3, D $\geqslant$ 10mm② 0.8mm $<$ S $\leq$ 1 mm, N $\leq$ 1 is acceptable. Grade B side: Outer surface: d $\leq$ 0.3mm, N $\leq$ 1 at a single Logo, acceptable; Other parts: ①d $\leq$ 0.3mm ignore ②0.3mm $<$ d $\leq$ 0.5mm, N $\leq$ 4, D $\geqslant$ 10mm acceptable ③ 0.5mm $<$ 0 $\leq$ 1 mm, N $\leq$ 2, D $\geqslant$ 10mm is acceptable. Grade C side: a single Logo d $\leq$ 0.3mm, N $\leq$ 1, is acceptable; Other parts ①d $\leq$ 1 mm is acceptable ②1.mm $<$ D $\leq$ 1 mm, N $\leq$ 2, D $\geqslant$ 10mm is acceptable.	Film ruler Visual	~	
Sunf	Surface treatment method	Consistent with engineering order and sample	Consistent with engineering order and sample	Visual	✓	
Surf ace Trea	Surface Compare with samples, matte glue between 1 25°, hyper gloss glue greater than 70°	Compare with samples, matte glue between $15^\circ$ to $25^\circ$ , hyper gloss glue greater than $70^\circ$	Consistent with engineering order and sample	Visual inspection Photometer	<b>√</b>	
tmen t	Adhesion	Tearing the adhesive film by hand can tear the paper fiber or ink layer to determine qualified.	Tearing the adhesive film by hand can tear the paper fiber or ink layer to determine qualified	Hand tearing test	✓	
	Color	Close to the standard sample	Close to the standard sample	Visual	√	

	Film bubbles, specks	Not in the body of the trademark, other positions $d\!\leqslant\!0.5\text{mm}$ , acceptable.	Not in the body of the trademark, other positions $d\!\leqslant\!0.3\text{mm}$ , acceptable.	Film ruler Visual		√
	Local UV offset	W≤0.5mm is acceptable.	W≤0.3mm is acceptable.	Film ruler Visual		<b>√</b>
	Gold and silver stamping	1. No dirt, paste plate phenomenon, incomplete does not affect the recognition and acceptance.  2. Without overprinting, allow to go 1MM; Need to set the allowable position of 0.3MM.  3. Adhesion test, 3M adhesive stamping position into 60 Angle pull up no gold, silver, finger gently scraping hot stamping position no gold and silver.	1. No dirt, paste plate phenomenon, incomplete does not affect the recognition and acceptance. 2. Without overprinting, allow to move 0.5MM; Need to set the allowable position of 0.1MM. 3. Adhesion test, 3M adhesive paper hot stamping position into 60 Angle pull up no gold, silver, finger gently scraping hot stamping position no gold and silver.	Film ruler Visual	√	
	Bump and dent	<ol> <li>No burst paper phenomenon.</li> <li>No need to set, allow to go 1MM; Need to set the allowable position of 0.5MM.</li> </ol>	<ol> <li>No burst paper phenomenon.</li> <li>No need to set, allow to go 0.5MM; Need to set the allowable position of 0.3MM.</li> </ol>	Film ruler Visual		√
	Structural dimensions	The shape structure is consistent with the sample, and the size is consistent with the sample. The error is controlled within 0.5MM.	The shape structure is consistent with the sample, and the size is consistent with the sample. The error is controlled within 0.3MM.	Tape Measure	√	
	Die cut out of position	Face paper is not allowed, the inner box is controlled within 1MM.	Face paper is not allowed, the inner box is controlled within 0.5M.	Film ruler	√	
Die cut	Burst line and color	1, Grade A side burst line is not allowed, Grade B side L $\leq$ 1mm ,W $\leq$ 0.25mm, N $\leq$ 1 is acceptable, Grade C side, inner box L $\leq$ 2mm ,W $\leq$ 0.25mm, N $\leq$ 2, the color explosion distance of the measured object 30CM is not obvious.	<ol> <li>Grade AB sides burst line is not allowed,</li> <li>Grade C side, inner box L≤1mm, W≤0.25m, N ≤1 is acceptable.</li> <li>the color explosion distance of the measured object 30CM is not obvious to the eye.</li> </ol>	Film ruler Visual	√	
	Press line, beer knife Molding	The press line is full and easy to fold, and the straight cutting edge of the beer knife is smooth and clean, without any beer penetration; After forming, there is no explosion Angle, sharp edges, easy to form the socket tightness is moderate, and the	The press line is full and easy to fold, the beer knife is straight and clean, and there is no beer through; After forming, there is no explosion Angle, sharp edges, easy to form the socket tightness is moderate, and the assembly tightness	Visual	√	

	effect	assembly tightness is moderate.	is moderate.			
	Drop the knife, drop the wire	Not allowed. Expansion of aircraft hole and socket position is not allowed	Not allowed. Expansion of aircraft hole and socket position is not allowed	Visual	1	
	Knife line bend	30CM is not visually noticeable then acceptable	Not allowed	Visual		√
	Color bit Line Offset	Grade A side is not allowed, Grade B and C sides are allowed 1MM.	Grade A side is not allowed, Grade B and C sides are allowed 0.5MM.	Visual, straight ruler	<b>√</b>	
	Scratch and wipe flowers	30CM is not visually noticeable then acceptable	30CM is not visually noticeable then acceptable	Visual		√
V slot stic k corn ers	V slot dimension, angles	1. Gray plate/visual test whether the four sides have knife edges, variants, and use calipers to card the outside diameter error + / - 0.2 MM  2   V slot Angle/According to the requirements of work order or template,  3, V slot gap less than 1MM.  4. V slot depth/connection thickness is maintained at 15 wire thickness (equivalent to the thickness of 128G coated paper), folding V slot by hand, no resistance, no deformation (big belly), The inner wall of the V slot is clean and flat, the parallelism /V end of the detection box edge error is plus or minus 0.1MM, the folding diagonal error is plus or minus 0.1MM.	1. Gray plate/visual test four sides have knife edge, variant, caliper card diameter error of plus or minus 0.1MM  2. V slot Angle/according to the work order or template requirements.  3. V slot gap less than 0.5MM.  4. V slot depth/connection thickness is maintained at 15 wire thickness (equivalent to the thickness of 128G coated paper), folding V slot by hand, no resistance, no deformation (big belly), The inner wall of the V slot is clean and flat, the parallelism /V end of the detection box edge error is plus or minus 0.05MM, the folding diagonal error is plus or minus 0.05MM.	Straight ruler Digital calipers Visual Film rule	✓	

		5, the swing plate requirements /100 pieces of positive and negative stacking, the swing plate height is 1.4M, and the use of plastic wrap is good after 4 hours.	5, the board requirements /100 pieces of positive and negative stacking, the swing plate height is 1.4M, the use of 4 hours later with a wrap.			
	Stick corners firmly	Tight and not easy to pop open, smooth adhesive paper	Tight and not easy to pop open, smooth adhesive paper	Tear visually and manually	√	
	Material	Consistent with sample and engineering orders	Consistent with sample and engineering orders	Visual	√	
	Facial paper	The face paper has no printing, surface treatment and poor die cutting. According to above standards, personnel must be arranged for 100% full inspection before wrapping the face paper	The face paper has no printing ,surface treatment and poor die cutting. According to above standards, personnel must be arranged for 100% full inspection before wrapping the face paper	Visual	√	
Fore skin	Sticky box strength	Tear face paper and gray board can tear 70% of the paper fibre as qualified. No glue, foam, empty glue, the interface is firm without warp	Tear face paper and gray board can tear 70% of the paper fibre as qualified. No glue, foam, empty glue, the interface is firm without warp.	Visual Hand tear	<b>√</b>	
, Inn er box,	Flatness edges	Wrapped shell, the surface of the inner box without impurities, convex and concave uneven, flat eges and concerns, no wrinkles	Wrapped shell, the surface of the inner box without impurities, convex and concave uneven, flat eges and concerns, no wrinkles	Visual		<b>√</b>
lid and base	Wrap edges offset	Grade AB sides: $D \le 1$ mm is acceptable, and does not affect the integrity of the text. Grade C side: $D \le 2$ mm acceptable, and does not affect the integrity of the text.	Grade AB sides: $D \le 0.5$ mm acceptable, and does not affect the integrity of the text. Grade C side: $D \le 1$ mm acceptable, and does not affect the integrity of the text.	Film ruler Visual		√
box	Glue stain	Box surface and inner box are clean without obvious glue water stains	Box surface and inner box are clean without obvious glue water stains	Visual		√

Smudges	<ol> <li>Non-erasable dirt (Do not erase with a dust-free cloth):         Not allowed, if it is permeated, d≤5mm, and no problem         with text recognition is acceptable.</li> <li>Erasable dirt (with a dust-free cloth can be erased):         Grade AB sides: d≤35mm, N≤1 (and not more than 1/3 of         the single side)         Grade C side: d≤45mm, N≤1 (and not more than 1/2 of         a single side)</li> </ol>	<pre>cloth):    Not allowed, if it is permeated, d≤3mm, and no problem with text recognition is acceptable. 2. Erasable dirt (with a dust-free cloth can be erased):    Grade AB sides: d≤25mm, N≤1 (and not more than 1/3    of the single side)    Grade C side: d≤35mm, N≤1 (and not more than 1/2 of    a single side)</pre>	Film ruler Visual	√
False defoaming	Grade A side: L $\leq$ 50mm, W $\leq$ 1.5mm, N $\leq$ 1 is acceptable. Grade B side: L $\leq$ 80mm, W $\leq$ 3mm, N $\leq$ 2, D $\geq$ 50mm is acceptable. Grade C side: L $\leq$ 100mm, W $\leq$ 5mm, N $\leq$ 2 kis acceptable.	Grade A side: L $\leqslant$ 30mm, W $\leqslant$ 1mm, N $\leqslant$ 1 is acceptable Grade B side: L $\leqslant$ 50mm, W $\leqslant$ 2mm, N $\leqslant$ 1 is acceptable Grade C side: L $\leqslant$ 50mm, W $\leqslant$ 3mm, N $\leqslant$ 2 is acceptable.	Film ruler Visual	√
Bubbles	Grade A side: not available at logo, other d≤3mm, N≤1 is acceptable. Grade B side: not available at logo, other d≤5mm, N≤1 on one side is acceptable. Grade C side: not available at logo, other d≤7mm, N≤2 on one side is acceptable.	Grade A surface: not available at logo, other d $\leq$ 2mm, N $\leq$ 1 is acceptable. Grade B side: not available at logo, other d $\leq$ 4mm, N $\leq$ 1 on one side is acceptable. Grade C side: not available at logo, other d $\leq$ 5mm, N $\leq$ 2 on one side is acceptable.	Film ruler Visual	~
Leak gray board gap	Gap D≤1mm, N≤2 is acceptable.	Gap D≤0.5mm, N≤1 is acceptable.	Visual, straight ruler	√
Degummin g	Edge degumming, W $\leq$ 1.5mm(length is not controlled)does not affect the performance acceptable.	Edge degumming, $\mathbb{W} \leq 1 \text{mm}$ (length is not controlled) does not affect the performance acceptable.	Film ruler Visual	1
Crease	Grade A side: LOGO and fuselage are not available, other parts L≤20mm, W≤0.3mm,N≤1 is acceptable. Grade B side: not at LOGO, other parts L≤30mm,W≤1mm,Single-side N≤1 is acceptable.	Grade A sidee: LOGO and fuselage are not available, other parts L≤10mm, W≤0.2mm,N≤1 is acceptable.  Grade B side: not at LOGO, other parts L≤20mm,W≤1mm,Single-side N≤1 is	Film ruler Visual	√

		Grade C side: not at LOGO, other parts L≤60mm, W≤2mm, single-side N≤1 is acceptable.	acceptable. Grade C side: not at LOGO, other parts L $\leq$ 30mm, W $\leq$ 1mm, single-side N $\leq$ 1 is acceptable.			
	Scratche s	Deep scratches: Grade A side: not at logo; Other parts L $\leq$ 30mm, W $\leq$ 0.3mm, N $\leq$ 1 is acceptable Grade B side: L $\leq$ 20mm, W $\leq$ 0.3mm, N $\leq$ 1 is acceptable at LOGO. Other parts L $\leq$ 40mm, W $\leq$ 0.4mm, N $\leq$ 2, D $\geq$ 100mm is acceptable Grade C side: L $\leq$ 80mm, W $\leq$ 0.8mm, N $\leq$ 2, D $\geq$ 100mm is acceptable Minor scratches: Grade A side 0.2mm $\leq$ 10mm, N $\leq$ 5 is acceptable, W $\leq$ 0.2mm ignored Grade B side: 0.2mm $\leq$ 1.2mm, N $\leq$ 7 is acceptable, W $\leq$ 0.2mm ignored Grade C side: 0.3mm $\leq$ 1.5mm, N $\leq$ 7 acceptable, W $\leq$ 0.3mm ignored	Deep scratches: Grade A side: not at logo; Other parts L≤20mm, W≤0.2mm, N≤1 is acceptable Grade B side: L≤20mm, W≤0.2mmN≤1is acceptable, Other parts L≤30mm, W≤0.3mm, N≤1, D≥ 80mm is acceptable Grade C side: L≤50mm, W≤0.5mm, N≤1, D≥50mmis acceptable Minor scratches: Grade A side: 0.1mm < W≤1mm, N≤3 is acceptable, W≤0.1mm ignored Grade B side: 0.1mm < W≤1mm, N≤5 is acceptable, W≤0.1mm ignored Grade C side: 0.2mm < W≤1mm, N≤5 is acceptable, W≤0.2mm ignored	Film ruler Visual		✓
	Moisture testing	Water test moisture content $13\pm 5$ for lid and base box	Water test moisture content $13\pm 5$ for 1id and base box	Moisture tester		<b>√</b>
	Dimensions after assembly	Consistent with the sample, the error is within 1MM	Consistent with the sample, the error is Within 0.5MM	Film ruler Visual		√
组装	Adhesive strength	70% of the area of the inner box and the shell can be glued to the paper fiber	70% of the area of the inner box and the shell can be glued to the paper fiber	Tear by Hand Visual	<b>√</b>	
	Tightness	3 seconds free slide, lid and base box to fit the gap on both sides < 2mm	3 seconds free slide, lid and base box to fit the gap on both sides < 1.5mm	Visual		√
	Accessorie s	1, the size and structure of the accessories are consistent with the sample, no obvious bad appearance, 2, the assembly position and direction	1, the size and structure of the accessories are consistent with the sample, no obvious bad appearance, 2, the assembly position and direction	Film ruler Visual		√

		<u></u>	<del>,</del>			
		of the accessories are consistent with the sample,	of the accessories are consistent with the sample,			
		3, no leakage loading, more loading, less loading	3, no leakage loading, more loading, less loading			
		phenomenon	phenomenon			
	Punch nail	The size and position of the buckle are consistent	The size and position of the buckle are			
		with the sample, without raw edges, imperfections and	consistent with the sample, without raw edges,	Visual	√	
	clasp	leakage.	imperfections and leakage.			
		1. Forming square, no wrinkle Angle, wrinkle, no	1. Forming square, no wrinkle Angle, wrinkle, no			
	0 11	uneven, 2. Easy to form, box shape magnetic strong	uneven, 2. Easy to form, box shape magnetic strong			
	Overal1	box cover with magnet can be naturally covered, lid	box cover with magnet can be naturally covered, lid	Visual	√	
	structure	and base box, drawer box can be naturally formed	and base box, drawer box can be naturally formed			
		and separated.	and separated.			
	Overal1	The box surface and inner box are clean, without	The box surface and inner box are clean, without			
		obvious glue water stains, dirt and wrinkles.	obvious glue water stains, dirt and wrinkles.	Visual		√
	appearance					
	Packing	Customers have the requirements of the specified	Customers have the requirements of the specified			,
	method	packaging according to customer requirements, no	packaging according to customer requirements, no	Visual		<b>√</b>
		requirements with kraft paper package.	requirements with kraft paper package.			
		The packing belt is compact without loosening and	The packing belt is compact without loosening and			
		spreading, and the finished product packaging is	spreading, and the finished product packaging is	Visual		<b>√</b>
		square and four corners, the same size and neatly	square and four corners, the same size and neatly			
		placed.	placed.			
Pack		The number of packages is consistent with the number	The number of packages is consistent with the number			
agin		of labels, and the number of each package is accurate	of labels, and the number of each package is accurate	Visual	<b>√</b>	
g		and meets the requirements of the quantity of works	and meets the requirements of the quantity of works	, 15441	, i	
	Appearance	order.	order.			
		Do not mix materials, mixed models, no damage and no	Do not mix materials, mixed models, no damage and no	Visual	<b>√</b>	
		foreign matter.	foreign matter.	V13ua1	, v	
		One mantissa is allowed, not manually altered.	One mantissa is allowed, not manually altered.	Visual		√
		The packaged finished product has no damage, and the	The packaged finished product has no damage, and the			
		card plate is flat to avoid the production of	card plate is flat to avoid the production of	Visual	√	
		impression.	impression.			
	Appagagas	The label printing format is consistent with the	The label printing format is consistent with the	Visual		
	Appearance	customer's requirements, and the company's format	customer's requirements, and the company's format	visuai		٧

Labe	is executed if there is no requirement.	is executed if there is no requirement.		
1	Labels are posted uniformly with neat cut edges	Labels are posted uniformly with neat cut edges	Visual	√
stam p	The position of the clearance cover of the production full inspection stamp is unified on the lower left of the label paper, and the position of the clearance cover of the QA/PASS stamp is unified on the production date.	production  full inspection stamp is unified on the lower left	Visual	√