











OBJECTIF DU DOCUMENT

The purpose of this instruction is to define labtest process, finished product labtest specifications for physical, chemical tests and laboratory self declaration accreditation process.



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| Status | Date | Type of document | Identification | Author | Validation |
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| Update | 2020 Jul 03 | Instruction | P500.1 | Boubakar BELLAHCENE | TECH SERVICES |

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1. GENERAL REMARKS

1.1 Supplier commitments

Suppliers commit themselves:

- To implement all the necessary means to guarantee that the production is meeting Kiabi requirement.
- To guarantee the homogeneity of the production.

For any fail tests, supplier need to provide action plan and retest after implementation for shipment validation.

- To use validated lab test result, particularly for composition and care instructions, in order to precise compliant information on care label.
- To inform Kiabi BEFORE order, of any potential risk by using specific fabrics/trims/production process not able to reach Kiabi requirements.
- If any failure of this instructions, or tests are not performed or do not meet Kiabi requirements, the order can be cancelled.

1.2 Material testing

Supplier of finished products is responsible to insure that each fabric batch is respecting with Kiabi specifications. Test to be performed on fabric are:

appearance after wash (general aspects, dimensional stability, twisting and CF to washing)

For SD Labtest suppliers, Kiabi accept to receive these reports from supplier internal laboratories. If no SD Labtest, supplier need to review with the mills to receive needed labtest report from them. Labtest reports need to be sent to Kiabi merchandising team for 1st order / season / color. If product concerns Kiabi nominated fabric, no need to send labtest report to Kiabi on fabric stage. Anyway, composition test needs to be done at this stage in external Kiabi nominated laboratory.

1.3 Garment Testing rules

WHEN?: As a general rule, tests are requested as early as possible from the production to anticipate any issues.

ON WHAT?: Test to be sent to Kiabi must be performed on finished product top of production samples (TOPs) assembled with bulk materials and production trims by production machine (not from sample room or other).

FREQUENCY?: Labtest report is in force for 1 season and respect following rules:

- 1st production lot:

Test need to be done in 3rd part lab.

Labtest need to be performed according full applicable test list (physical and chemical). Appearance after wash, color fastnesses and chemical tests related to dyes will be performed on all colors. Styles with same colors coming from the same fabric mill, Kiabi accept to have 1 labtest for all styles for each concerned colors for appearance and chemical tests link to dying.

- Repeat orders:

A 4 weeks window on shipment date is consider as same batch of production. During this time, no need to provide new labtest reports.

If supplier is not SD, If it is the same production batch number, no need to retest after 4 weeks as the batch has been already tested.

If shipment overpassing this window, supplier need to provide for each shipment:

Appearance after wash tests

Pulling test if applicable for babies orders

For SD suppliers, Kiabi accept to receive labtest reports from supplier internal laboratory. For other supplier, labtests need to be done in external Kiabi nominated laboratory.



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WHO PICK SAMPLES?

By default, samples are picked by Kiabi Asia technical team or service providers technical team and sent directly to the nominated laboratory with seal.

For SD Labtest suppliers: samples are picked by suppliers technical team.

TESTED SAMPLE ARCHIVED?: Tested samples shall be retained by the laboratory, one year.

IF FAIL RESULT?: any new submission needs to be done after corrective action plan. This CAP is compulsory shared with Kiabi Asia / service providers technical services for agreement. Supplier commit on consistency of quality on shipments. if fail tests are detected after delivery, Kiabi reserve the right to remove the goods from shops to jobber at supplier expense. Supplier will ask 3rd part sample pick up for 1 season at his expense and work on root cause for quick improvements.



1.4 Web orders

For this category of special orders and if impact of testing cost is too significative to apply usual Kiabi testing plan.

In that case, Kiabi accepts to perform only regulation testing if quantity on style / season <1000p.

1.5 Tests report

The test report must clearly indicate the acceptance levels of Kiabi and if the product is compliant or not to Kiabi requirements defined in this document.

A clear chart must precise each test performed and result (pass / fail).

For fail test, laboratory need to put photo of defects. For failed appearance after wash, photo before and after wash need to be in the report

Test report spreading:

For ITFAS order:

To supplier

¬ Systematic diffusion

¬ Kiabi Asia / Service Provider

¬ Kiabi Asia / Service Provider (SP) / SP tech services

¬ diffusion for fail tests only

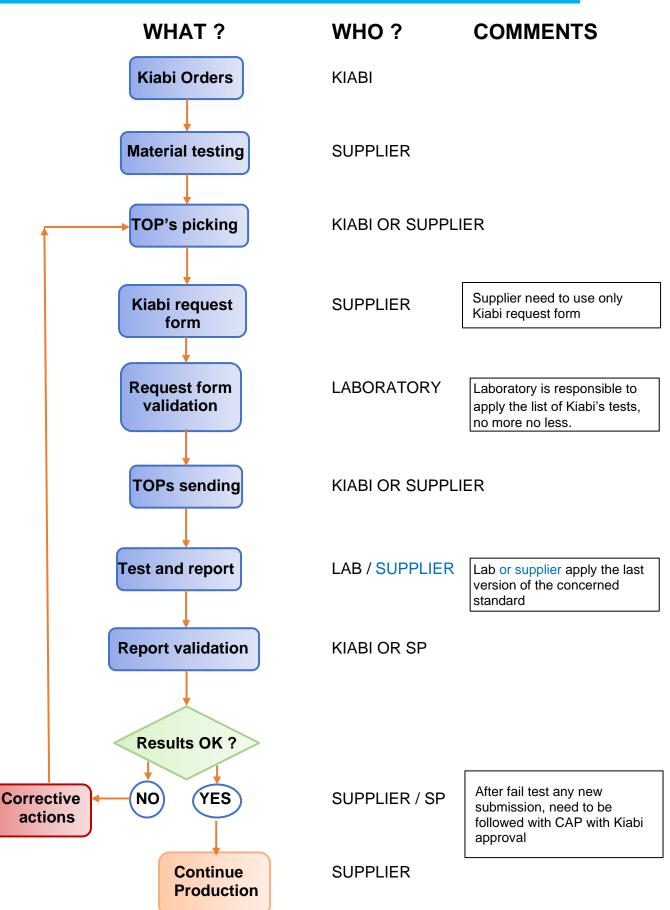
For Bunsha order:

1.6 Tests invoice from nominated lab

Tests are invoiced to supplier.

The cost of the tests is included in trade negotiations.

2. PROCESS FLOW



3. TEXTILE PHYSICAL TESTS LIST

3.1 General

Following test need to be implemented for every textile products.

<u>Washing</u>: It will be performed on a European commercial washing machine as care instructions precised on request form, 50gr IEC detergent with OB except if using gentle detergent (cf carelabel). The drying is done by default line dry, except if additional requirement on carelabels. The appearance conclusions will be done 2 hours after ironing.

| Tests | Standard | Concerned articles | KIABI requirements |
|---------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------|
| | ISO 1833 | All textile process | +/- 3% +/- 1% If valuable fiber: wool, silk, elastane |
| Composition | In house | Leather goods | Precise type of leather + animal |
| | In house | Fake leather | Result expressed in textile base + coating type |
| Weight / m ² | ISO 3801 | Textile products | +/-5% |
| Article weight | / | sweater only on Medium size | +/-5% |
| | | | 1) No damage or obvious appearance change |
| | | | All Noticeable change need to be precised in comments |
| | | | 2) Twisting after washing ≤ 5% and max 2cm (except babies items) |
| | | | 3) Dimensional stability: |
| Appearance after 1 | | | - Woven : +/- 3% |
| washing or 1 dry cleaning | ISO 6330 | | Linen / Viscose (<50%) : +/- 4% |
| General appearance | ISO 5077 | Even weekele product | Linen / Viscose (>50%) : +/- 6% |
| 2) Spirality after washing | ISO 3759 | Every washable product Dry cleaning requested if washing is not possible | - Knit : +/- 5% |
| Dimensional stability | ISO 16322-3 | | Linen / Viscose (>50%) : +/- 6% |
| 4) Color fastness to washing done with multifiber 6 | ISO 105 C06 | | 4) CF: |
| fabrics on all medium or | ISO 105 D01 | | - Color Degradation : ≥ 4 |
| dark color | | | Neon: ≥ 3-4 |
| | | | If result <4: precise result with suppressor |
| | | | - Bleeding :≥ 4 |
| | | | Pigment dye / Sulfur dye ≥3/4 |
| | | | Denim / tie&dye / garment dye / overdye: ≥ 3 |
| | | | If multicol → cross staining bleeding: ≥ 4/5 |
| Appearance after 3 washings | | Every washable product concerned by following specifications: | |
| General appearance Spirality after washing Dimensional stability | ISO 6330 | - PMA / BASICS / ROLLINGS | |
| | ISO 5077 | - Every washable product with | |
| | ISO 3759 ISO 16322-3 | special accessory: sequins, screen, flocked, placed prints, embroidery, pompom | Same specs as Appearance after 1 wash |
| Color fastness to washing done with multifiber 6 fabrics on all medium or | ISO 105 C06 | → 1 washing / full drying / 2 washings / full drying | |
| dark color | | Result will be given after 1 and 3 washes | |

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| Tests | Standard | Concerned articles | KIABI requirements |
|-------------------------------------|-----------------|-------------------------------|----------------------------------------------------------------------------|
| | | | - Dry: ≥ 4 |
| | | | Denim / tie & dye / overdye / garment dye/ Pigment dye / Sulfur dye: ≥3 |
| | | All textile items with medium | - Wet: ≥ 2-3 |
| Color fastness to dry / wet rubbing | ISO 105 X 1,2 | Pilito | If Denim / tie & dye / overdye: / garment dye / Pigment dye / Sulfur dye |
| | | Not perform on placed prints | Dark colors ≥1-2 |
| | | | Medium colors ≥2 |
| | | | Light colors ≥2-3 |
| | 105 B02 | All textile items | ≥ 3-4 |
| Color fastness to light | Grade4 48h | | Fluo ≥ 2-3 |
| | ISO 12945-1 | All textile items | - Sweaters / Jumpers / Heavy knit ≥ 3 |
| Pilling | ISO 12945-2 | Knit: ICI 3 hours | Light knit / polo: ≥ 3-4 |
| | After 1 wash | Woven: Martindale 2000c | - Woven / woolen, fake woolen items: ≥ 3-4 |
| Peel loss | AATCC93 | Items with fake fur | Weight loss < 12% |
| Peel loss | 3000c 3min | nons with lane ful | Wolgh 1000 \ 12/0 |

Appearance after wash criteria's:

Find under criteria's of general appearance after wash to be noticed in labtest report:

- Fabric:

Fraying of fabric and trims Material fuzzing aspects

- Trims

Detachment

Corrosion or damage

Delamination of fused components

Zipper / button / snap quality

Differential shrinkage on components / parts that can cause wrinkling or puckering.

Padding conformity

- Seam:

Grinning/ unravelling / breaks opening seam

This list is not exhaustive, any other noticeable change needs to be precised.

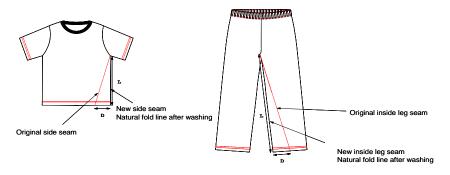
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Spirality after washing

The method which permits to determine spirality is as follow:

- Measure the distance " D " (to nearest 1 mm) from the natural dried fold on the fabric square to the inner edge of the seam for top items (see diagram). For pants items, measure the distance " D " from the natural dried fold and the inside leg seam. On garments these measurements are made at the hem.
- Calculate the percentage spirality i.e : $100 \ x$ " D "/ L corresponds to:
 - + underharm to hem length after washing for top items.
 - + inside leg seam after washing for pants items.



3.2 Durability tests

When it is asked from Kiabi, following durability tests need to be performed in order to guaranty best in class products properties.

- Appearance after 20 washes.

General appearance, Spirality, Dimensional stability and color fastnesses will be performed after 1, 3, 5, 10, 15, 20 washes steps.

Results will be expressed on each steps.

Test methods and specifications will follow appearance after wash requirements. Drying will be done only

before washes steps

3.3 Additional specifications

Please add following specifications according to concerned products:

If Woven

| Tests | Standard | Concerned articles | KIABI requirements |
|-----------------------------------------|---------------|------------------------------|---------------------------------------|
| | | | <130gsm: >140x120N |
| | | | 130-200gsm: >180x130N |
| Tensile strength (grab | ISO 13934-2 | Woven | 201-270gsm: >200x160N,denim >240x160N |
| test method) | 150 13934-2 | vvoven | 271-340gsm: >250x200N,denim >320x270N |
| | | | 341-400gsm: >300x240N,denim >400x320N |
| | | | >400gsm: 350x280N, denim >480x360N |
| | | | <100gsm: 7 x 7N |
| | | | 101-130gsm: > 9x 7N |
| | | | 131-200gsm: >12 x10N |
| Tearing strength | ISO 13937-1 | Woven | 201-270gsm:>15 x 12N, denim:>18 x 15N |
| 3 3 | | | 271-340gsm:> 18x14N, denim: >25x18N |
| | | | 341-400gsm:>22x20N, denim:>28x22N |
| | | | >400gsm: 25x22N, denim:> 32x28N |
| | ISO 13936-2 | Woven | <4mm |
| Seam slippage All finished product must | | | Force applied: |
| be tested | | | 6 daN if <220gsm, 12 daN if >220gsm |
| | ISO 105-G03 | Denim except brut colors | ≥ 3-4 |
| Color Fastness to Ozone | 1 cycle | ' | |
| | ISO 12947-2 | Denim | Denim: > 20000 cycles |
| Abrasion | | | Denim ultra resistant > 120000 cycles |
| Velvet / Corduroy peel | ISO 12947-2/3 | Velvet / Corduroy woven | No damage |
| loss | 20000c | volver, columby wover | Weight loss < 5% |
| | 14704-1 | Stretch woven trousers | Growth:<5% if stretch <25% |
| Stretchability and growth | 17/04-1 | after 30 min | Growth <8% if stretch >25% |
| | EN 1140 1 | 100% polyester woven | 4 1v10011 ohm |
| Electro-static properties | EN 1149-1 | Exception: if repellent | < 1x10^11 ohm |
| 0 | ISO7768/6330 | Concerned shirts / blouse | Facultura > 2.5. Non-inco > 4 |
| Specific "wash and wear" | After 1 wash | SSSSITION OF MICE / DISCOUNT | Easy care ≥ 3.5 , Non iron ≥ 4 |

If Babies Items (0-3 years sizes)

| Tests | Standard | Concerned articles | KIABI requirements |
|--------------------------------|-------------------------|------------------------------------------------------------------------------------------------|---------------------------------|
| Color Fastness to perspiration | ISO 105 E04 | All Babies textile products | ≥ 3/4 |
| Color Fastness to saliva | GB T 18886 | All Babies textile products | ≥ 4 |
| Pulling test on small parts | EN 71.1 | Babies Article except sleeping bags with trims that can come off (snaps, buttons, accessories) | ≥ 50 N < 6 mm ≥ 70 N > 6 mm |
| Peel loss | AATCC93 3000c / 3min | Babies Items with Sherpa fabric | Sherpa fabric: Weight loss < 6% |

If babies sleeping bags and cot bumpers

| Tests | Standard | Concerned articles | KIABI requirements |
|-----------------------------|-----------------|-------------------------------|-----------------------------------------|
| Pulling test on small parts | CEN/TR 16792 | Sleeping bags and cot bumpers | ≥ 70 N |
| Snap attachment resistance | CEN/TR 16792 | Sleeping bags | ≥ 10 N |
| Appearance after 5 washes | ISO 6330 | Sleeping bags and cot bumpers | No damage or detached parts |
| zippers | EN 16732 | Sleeping bags | Code B |
| Thermal resistance | ISO 5085-1 | Sleeping bags | < 0.40 m2 K/W |
| Flammability | EN 1103 | Sleeping bags and cot bumpers | No electric flash before and after wash |

If bunting bags

| Tests | Standard | Concerned articles | KIABI requirements |
|-----------------|----------|------------------------|--------------------|
| Flammability | ISO 6941 | Bunting bag and others | 15 sec |
| Seam resistance | EN 71-1 | Bunting bag and others | >50N |

If Swimwear / Beach towels / bath towels tests

| Tests | Standard | Concerned articles | KIABI requirements |
|-------------------------------------|-------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Color Fastness To chlorinated water | ISO 105 E03 50 mg/l | Swimwear / towels | ≥3-4 Fluo: ≥2-3 |
| Color Fastness To sea water | ISO 105 E02 | Swimwear / towels | ≥4 Fluo: ≥3-4 |
| Color Fastness To light | ISO 105 B02 Grade4 – 48h | Swimwear / towels | ≥4 Fluo: ≥2-3 |
| Peel loss | ISO 12947- 2/3 | Beach towels | Weight loss < 12% |
| Appearance after 3 washes | ISO 6330 ISO 5077 ISO 3759 ISO 16322-3 | Beach towels with licence | CF to washing: ≥3-4 Color degradation: ≥4 No defects Result to be quoted after 3 washes according care instructions |
| Wettability / Absorbency | BS 4554 | Beach and bath towels with licence | <15 sec |
| Terry Ratio | ISO 7211-3 | Bath towels with licence | 4:1 minimum |

If Jacket / Coats

| Tests | Standard | Concerned articles | KIABI requirements |
|---------------------------------|-----------|-------------------------------------|---------------------------------------------|
| Repellent to water (spray test) | ISO 4920 | rain coats / ski items | ≥4 |
| Permeability to water | ISO 20811 | Waterproof / rain coats / ski items | Waterproof: > 800mb Ski / Raincoat: > 600mb |
| Fiber proof properties | EN 15586 | Padded items | < 15 fibers after 2700c |

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If Nightwear / Full filled beddings

| Tests | Standard | Concerned articles | KIABI requirements |
|---------------------------|-------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------|
| Flammability | EN 14878 | Nightwear baby / child | Class A |
| Flammability | 12952 Part 1 | Full filled bedding | Respect French decree 2000-164 / 23/02/2000 |
| Appearance after 3 washes | ISO 6330 ISO 5077 ISO 3759 ISO 16322-3 | Beddings with licence | CF to washing: >3-4 Color degradation: >4 No defects Result to be quoted after 3 washes according care instructions |
| Bursting strength | ISO 13938 | Beddings with licence | > 300ka |

If Feather / Down used

| Tests | Standard | Concerned articles | KIABI requirements |
|-----------------------------|----------------------------|-------------------------------------------------------------|------------------------|
| Composition | EN 12131-1 and EN 12934 | All items filled with feather or down | 1 |
| Down / feather Turbidity | EN 1164 | Down / feather filled beddings | > 300mm |
| Down / feather Oxygen rate | EN 1162 | Down / feather filled beddings | < 20 |
| Fiber proof property | EN 15586 | Down Padded items | < 15 downs after 2700c |
| Oil content | EN 1163 | All items filled with feather or down | Oil: ≤ 1% |
| Proofness properties | EN 12132-1 | Only for waterproof / raincoats filled with feather or down | Proofness: ≤ 15 |

If Socks

| Tests | Standard | Concerned articles | KIABI requirements |
|----------|-----------|--------------------|---------------------------|
| Abrasion | EN42770 4 | Cooks | Sport socks: 15000 cycles |
| Abrasion | EN13770-1 | Socks | Other: 10000 cycles |

4. NON TEXTILE PHYSICAL TESTS LIST

Leather tests

| Tests | Standard | Concerned articles | KIABI requirements |
|-----------------------------------------------------------------------------------|------------------------------|------------------------|-------------------------------------------------------------|
| Leather type | French decree 2010-29 | All items with leather | Precise leather type and animal |
| Thickness material Top: test on front, back, sleeves Bottom:: test on front, back | ISO 2589 | All items with leather | +/- 1 mm |
| Color Fastness To water | ISO 11642 | All items with leather | ≥ 3 |
| Color fastness to dry / wet rubbing | EN 11640 | All items with leather | - Dry: ≥ 3 after 50 cycles - Wet: ≥ 2-3 20 cycles |
| Color Fastness To light | ISO 105 B02 Grade 4 – 48h | All items with leather | ≥3-4 |
| Tearing strength (Baumann) | ISO 3377 -1 | All items with leather | ≥20N length x ≥20N width Split: ≥14N length and ≥10N width |

bag, belt, brace, glove

| Tests | Standard | Concerned articles | KIABI requirements |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fiber composition | Textile: ISO 1833 Fake leather: in house | Bag, belt, glove, brace | Respect regulation in force |
| Appearance after 1 washing 1) General appearance 2) Dimensional stability 3) Color fastness to washing done with multifiber 6 fabrics on all medium or dark color | ISO 6330 ISO 5077 ISO 3759 ISO 16322-3 ISO 105 C06 ISO 105 D01 | Every washable product | 1) No damage or obvious appearance change All Noticeable change need to be precised in comments 2) Dimensional stability: - Woven: +/- 3% - Knit: +/- 5% 3) CF: - Color Degradation: ≥ 4 Neon: ≥ 3-4 If result <4: precise result with suppressor - Bleeding: ≥ 4 Pigment dye / Sulfur dye ≥3/4 Denim / tie&dye / garment dye / overdye: ≥ 3 |
| Color fastness to dry / wet rubbing | ISO 105 X 1,2 | All textile items with medium or dark color Not perform on placed prints | If multicol → cross staining bleeding: ≥ 4/5 - Dry: ≥ 4 Denim / tye & dye / overdye / Pigment dye / Sulfur dye: ≥3 - Wet: ≥ 2-3 |
| | | | Denim / tye & dye / overdye: / Pigment dye / Sulfur dye ≥1-2 |

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Babies Items (0-3 years sizes)

| Tests | Standard | Concerned articles | KIABI requirements |
|--------------------------------------------------------------|-------------------------|-------------------------------------|-------------------------------------------------------------|
| Color Fastness to perspiration | ISO 105 E04 | All products | ≥ 3/4 |
| Color Fastness to saliva | GB T 18886 | All products | ≥ 4 |
| Physical and mechanical tests of all trims that can come off | EN 71.1 | Carreonie on (snaps, | ≥ 50 N < 6 mm ≥ 70 N > 6 mm |
| Peel loss | AATCC93 3000c / 3min | Items with fake fur / Sherpa fabric | Fake fur: Weight loss < 12% Sherpa fabric: Weight loss < 6% |

<u>Shoes</u>

| Tests | Standard | Concerned articles | KIABI requirements | | |
|-----------------------------------|--------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--|
| | ISO 1833 | Textile part | Applied on the 3 parts | | |
| composition | In house | Plastic part | | | |
| Composition | French decree 2010-29 | Leather identification | Identify leather type and animal | | |
| Upper sole bonding | ISO 17708 | for all assembled shoes | Slippers : >2N/mm slippers other footwear: >2.5N/mm | | |
| Flexing resistance of whole shoe | ISO 19955 | For all flexible shoes except slippers | No damage after 50 000 cycles | | |
| Heel resistance test | ISO 22650 | Shoes If heel height >30mm | Force to heel detachment: >500N Deformation at 200 N: <25% Deformation at 400 N: <15% | | |
| | ISO 19956 | Shoes with heel | No damage | | |
| Heel fatigue test | 14000 impacts | Onoco with neor | The damage | | |
| | | All shoes except slippers | By default <250mm3 | | |
| outsole abrasion | ISO 12770 | | If EVA <600mm3 | | |
| resistance | | Flip flops | If Density >0.2g/cm3 and loss <800mm3 | | |
| | ISO 17698 | Upper in PU | Delamination: > 1.2N/mm | | |
| Upper delamination | dry condition | Opper in Po | Dolamilation. > 1.219/11111 | | |
| | ISO 3287 | All shoes except heel part for | 0.40 baby child | | |
| Wet Outsole slip resistance | surface : clay tile | women high heel shoe | 0.30 adult | | |
| whole shoe washing test | ISO19954 | Shoes with textile upper and textile or flexible outsole | no damage no obvious color change | | |
| CF to Rubbing dry / wet | ISO 17700 | insole and lining | ≥3/4 | | |
| CF to Water | ISO 105 E01 | leather and textile outside fabric | change/staining 3/4 | | |
| CF to acid or alkali perspiration | ISO 105 E04 | insole and lining | change/staining 3/4 | | |
| Leather identification | French decree 2010-29 | Leather footwear | identify leather type and animal | | |
| Physical and mechanical tests | EN 71-1 | Babies footwear snaps, buttons, accessories which can come off the garments | ≥50N (<6mm) ≥70N (>6mm) | | |
| Zipper performance | BS 3084 Annex F | Shoes with zipper | > 500 cycles no damage | | |



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Sunglass

| Tests | Standard | Concerned articles | KIABI requirements |
|---------------|-------------|--------------------|-----------------------|
| Sunglasses CE | ISO 12312-1 | sunglasses | Compliant to standard |

If Toys, plush, deguishment:

For this item or for any parts of products concerned as a toy

| Tests | Standard | Concerned articles | KIABI requirements |
|-----------|---------------------------------|----------------------------------|------------------------------------------------------------------|
| Toy tests | EN 71 all concerned parts | 10 y 5 of product with toy parts | Respect all standards Part1 Before and after wash if washable |



5. ZIPPERS

All zippers need to respect following requirements, one time per year per supplier per zipper style.

| Tests | Standard | Concerned articles | KIABI requirements |
|-----------|----------|-----------------------------------|--------------------|
| Full list | EN 16732 | All textile articles with zippers | Cf below charts |

Proposal of using per product category according EN 16732:

Recommended: ★★ Acceptable: ★ Forbidden :

| Products | | Pe | rformanc | e code | |
|--------------------------------|---|----|----------|--------|---|
| Floudets | Α | В | С | D | E |
| Dress | * | ** | | | |
| Knits | * | * | ** | | |
| Leather goods | | | * | ** | |
| Trouser, denim pants and skirt | | * | ** | | |
| bra | | | ** | | |
| Coats and jackets | | | * | ** | |
| bags | | | * | ** | * |
| Baby sleeping bags | | ** | | | |
| Bunting bag | | | * | ** | |
| shoe | | | * | ** | |
| Ski suit | | | * | ** | |
| Kids apparels | | | ** | | |

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Tests list and standard to respect according performance code:

| Test list | | Code de performance | | | | |
|-------------------------------------------------------|--------|---------------------|-----|-----|-----|-----|
| | | Α | В | С | D | Е |
| Strength of Puller Attachment (min.) | N | 70 | 80 | 200 | 250 | 300 |
| Closed-End Test (min.) | N | 35 | 60 | 80 | 100 | 140 |
| Top-Stop Test (min.) | N | 50 | 70 | 90 | 110 | 130 |
| Strength Of Open-End Fastener Box (min.) | N | 40 | 70 | 90 | 120 | 150 |
| Resistance To Reciprocation : cycles without failure. | Cycles | >500 | | | | |
| Lateral Strength Test (min.) | N | 150 | 200 | 250 | 370 | 470 |
| Lateral Strength Of Open-End Attachment Test (min.) | N | 40 | 70 | 90 | 120 | 160 |
| Slider Locking Test (min.) | N | 10 | 12 | 25 | 40 | 60 |

In addition tests to respect for baby and kids products:

| Test list | Unity | Specs (min) |
|---------------------------------------|-------|----------------|
| Single Strength Slider Retention Test | Ν | 70 |
| Torque Strength | N.m | 0,34 |



Chemical tests:

These tests need to be applied on all parts of the zipper (teeth, slider, ribbon...)
Chemical tests will be performed by material as specified in Kiabi control plan chapter 6.3.

6. CHEMICAL SPECIFICATIONS

According to Kiabi Purchase contracts, supplier need to respect and be updated on regulation in force for all Kiabi selling countries (Reach and others...). Please note that Kiabi will proceed random chemical testing during production or after delivery in stores to audit chemical specification conformity.

6.1 KIABI Restricted Substance list (RSL)

AZO DYES AMINES AND ARYLAMINE SALTS

Azo dyes and pigments are colorants that incorporate one or several azo groups (-N=N-) bound with aromatic compounds. Thousands of azo dyes exist, but only those which degrade to form the listed cleavable amines are restricted. Azo dyes that release these amines are regulated and should no longer be used for dyeing textiles.

| CAS No. | Substance | Test Method | Requirement |
|------------|-------------------------------------------|--------------------------|----------------|
| 92-67-1 | 4-Aminobiphenyl | | |
| 92-87-5 | Benzidine | | |
| 95-69-2 | 4-Chloro-o-toluidine | | |
| 91-59-8 | 2-Naphthylamine | | |
| 97-56-3 | o-Aminoazotoluene | | |
| 99-55-8 | 2-Amino-4-nitrotoluene | | |
| 106-47-8 | p-Chloraniline | | |
| 615-05-4 | 2,4-Diaminoanisole | | |
| 101-77-9 | 4,4'-Diaminodiphenylmethane | | |
| 91-94-1 | 3,3'-Dichlorobenzidine | | |
| 119-90-4 | 3,3'-Dimethoxybenzidine | | |
| 119-93-7 | 3,3'-Dimethylbenzidine | Textiles: EN ISO 14362-1 | |
| 838-88-0 | 3,3'-dimethyl-4,4'-diaminodiphenylmethane | Leather: EN ISO 17234-1 | |
| 120-71-8 | p-Cresidine | | <30ppm each |
| 101-14-4 | 4,4'-Methylen-bis(2-chloraniline) | p-Aminoazobenzene: | <50ppiii eacii |
| 101-80-4 | 4,4'-Oxydianiline | Textiles: EN ISO 14362-3 | |
| 139-65-1 | 4,4'-Thiodianiline | Leather: EN ISO 17234-2 | |
| 95-53-4 | o-Toluidine | | |
| 95-80-7 | 2,4-Toluylendiamine | | |
| 137-17-7 | 2,4,5-Trimethylaniline | | |
| 95-68-1 | 2,4 Xylidine | | |
| 87-62-7 | 2,6 Xylidine | | |
| 90-04-0 | 2-Methoxyaniline (= o-Anisidine) | | |
| 60-09-3 | p-Aminoazobenzene | | |
| 3165-93-3 | 4-Chloro-o-toluidinium chloride | | |
| 553-00-4 | 2-Naphthylammoniumacetate | | |
| 39156-41-7 | 4-Methoxy-m-phenylene diammonium sulphate | | |
| 21436-97-5 | 2,4,5-Trimethylaniline hydrochloride | | |

In the hypothesis where the test reveals the presence of forbidden amines, every colour will be retested to determine which contains azo dyes.

| STANDARD QUALITY LEVEL FOR AZO DYES | | | | |
|-------------------------------------|----------|-----------|-----------|--|
| | 1 colour | 2 colours | 3 colours | |
| PASS | < 30ppm | < 15ppm | < 10ppm | |
| FAIL | > 30ppm | > 15ppm | > 10ppm | |

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CARCINOGENIC, ALLERGENIC AND HAZARDOUS DYES

Disperse dyes are a class of water soluble dyes that penetrate the fibre system of synthetic or manufactured fibres and are held in place by physical forces without forming chemical bonds. Disperse dyes are used in synthetic fibre (e.g., polyester, acetate, polyamide). Restricted disperse dyes are suspected of causing allergic reactions and are prohibited from use for dyeing of textiles.

| CAS No. | Substance | Test Method | Requirement |
|---------------|---------------------------------------------------------|-----------------------|-------------|
| 2475-45-8 | C.I. Disperse Blue 1 | | |
| 2475-46-9 | C.I. Disperse Blue 3 | | |
| 3179-90-6 | C.I. Disperse Blue 7 | | |
| 3860-63-7 | C.I. Disperse Blue 26 | | |
| 56524-77-7 | C.I. Disperse Blue 35A | | |
| 56524-76-6 | C.I. Disperse Blue 35B | | |
| 12222-97-8 | C.I. Disperse Blue 102 | | |
| 12223-01-7 | C.I. Disperse Blue 106 | | |
| 61951-51-7 | C.I. Disperse Blue 124 | | |
| 23355-64-8 | C.I. Disperse Brown 1 | | |
| 2581-69-3 | C.I. Disperse Orange 1 | | |
| 730-40-5 | C.I. Disperse Orange 3 | | |
| 82-28-0 | C.I. Disperse Orange 11 | | |
| 12223-33-5 | | | |
| 13301-61-6 | C.I. Disperse Orange 37/76/59 | | |
| 51811-42-8 | | | |
| 85136-74-9 | C.I. Disperse Orange 149 | | |
| 2872-52-8 | C.I. Disperse Red 1 | | |
| 2872-48-2 | C.I. Disperse Red 11 | | |
| 3179-89-3 | C.I. Disperse Red 17 | | |
| 61968-47-6 | C.I. Disperse Red 151 | | |
| 119-15-3 | C.I. Disperse Yellow 1 | | |
| 2832-40-8 | C.I. Disperse Yellow 3 | DIN 54231 | <50ppm each |
| 6300-37-4 | C.I. Disperse Yellow 7 | ISO 16373-1, -2 et -3 | Зорригеиен |
| 6373-73-5 | C.I. Disperse Yellow 9 | | |
| 6250-23-3 | C.I. Disperse Yellow 23 | | |
| 12236-29-2 | C.I. Disperse Yellow 39 | | |
| 54824-37-2 | C.I. Disperse Yellow 49 | | |
| 54077-16-6 | C.I. Disperse Yellow 56 | | |
| 3761-53-3 | C.I. Acid Red 26 | | |
| 569-61-9 | C.I. Basic Red 9 | | |
| 569-64-2 | C.I. Basic Green 4 | | |
| 2437-29-8 | C.I. Basic Green 4 | | |
| 10309-95-2 | C.I. Basic Green 4 | | |
| 548-62-9 | C.I. Basic Violet 3 | | |
| 632-99-5 | C.I. Basic Violet 14 | | |
| 2580-56-5 | C.I. Basic Blue 26 | | |
| 1937-37-7 | C.I. Direct Black 38 | | |
| 2602-46-2 | C.I. Direct Blue 6 | | |
| 573-58-0 | C.I. Direct Red 28 | | |
| 16071-86-6 | C.I. Direct Brown 95 | | |
| 60-11-7 | 4-Dimethylaminoazobenzene (Solvent Yellow 2) | | |
| 6786-83-0 | C.I. Solvent Blue 4 | | |
| 561-41-1 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol | | |
| 118685-33-9 | Navy blue Component 1: C39H23ClCrN7O12S.2Na | | |
| Not allocated | Navy blueComponent 2: C46H30CrN10O20S2.3Na | | |

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APEO:

APEOs can be used as or found in detergents, scouring agents, spinning oils, wetting agents, softeners, emulsifying/dispersing agents for dyes and prints, impregnating agents, de-gumming for silk production, dyes and pigment preparations, polyester padding and down/feather fillings. APs are used as intermediaries in the manufacture of APEOs and antioxidants used to protect or stabilize polymers. Biodegradation of APEOs into APs is the main source of APs in the environment. APEOs and formulations containing APEOs are prohibited from use throughout supply chain and manufacturing processes.

| CAS No. | Substance | Test Method | Requirement |
|---------|-----------------------------------|-----------------------|----------------------|
| Various | Nonylphenol (NP), mixed isomers | | |
| Various | Octylphenol (OP), mixed isomers | ISO 18857-2 | NP + OP + HpP + PeP |
| Various | Heptylphenol (HpP), mixed isomers | 130 18837-2 | < 1000ppm |
| Various | Pentylphenol (PeP), mixed isomers | | |
| Various | Nonylphenol ethoxylates (NPEOs) | Textiles: ISO 18254-1 | NPEO + OPEO < 100ppm |
| Various | Octylphenol ethoxylates (OPEOs) | Leather: ISO 18218-1 | |

FORMALDEHYDE

Used in textiles as an anti-creasing and anti-shrinking agent. It is also often used in polymeric resins.

| CAS No. | Substance | Test Method | Requirement |
|---------|---------------------|------------------------|----------------------|
| 50-00-0 | Formaldehyde | ISO 14184-1 | <75ppm |
| 30-00-0 | 1 Official delivate | Leather: ISO 17226-1/2 | Baby product: <16ppm |

DMFu

DMFu is an anti-mold agent used in sachets in packaging to prevent the buildup of mold, especially during shipping.

| CAS No. | Substance | Test Method | Requirement |
|----------|-------------------------|-------------|-------------|
| 624-49-7 | Dimethylfumarate (DMFu) | ISO 16186 | <0.1ppm |

SOLVENTS AND RESIDUALS

DMFa is a solvent used in plastics, rubber, and polyurethane (PU) coating. Water-based PU does not contain DMFa and is therefore preferable.

Formamide is a byproduct in the production of EVA foams. DMAC is a Solvent used in the production of elastane fibers and sometimes as substitute for DMFa. NMP is a Industrial solvent used in production of water-based Polyurethanes and other polymeric materials. May also be used as a surface treatment for textiles, resins, and metal-coated plastics, or as a paint stripper.

| CAS No. | Substance | Test Method | Requirement |
|----------|------------------------------|-------------|-------------|
| 68-12-2 | Dimethylformamide (DMFa) | ISO 16189 | <1000ppm |
| 75-12-7 | Formamide | ISO 16189 | <1000 ppm |
| 127-19-5 | Dimethylacetamide (DMAC) | ISO 16189 | <1000 ppm |
| 872-50-4 | N-Methyl-2-pyrrolidone (NMP) | ISO 16189 | <1000 ppm |

CHLORINATED PARAFFINS

May be used as softeners, flame retardants, or fat-liquoring agents in leather production; also as a plasticizer in polymer production.

| CAS No. | Substance | Test Method | Requirement |
|----------------|-----------------------------------------------------|-------------------------------------------------------------------------|-------------|
| 85535-84- 8 | Short-chain Chlorinated Paraffins (SCCPs) (C10-C13) | Combined CADS/ISO 18219 method V1:06/17 and analysis by GC-NCI-MS | <1000ppm |

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PHTALATES

Esters of ortho-phthalic acid (Phthalates) are a class of organic compound commonly added to plastics to increase flexibility. They are sometimes used to facilitate the moulding of plastic by decreasing its melting temperature. Phthalates can be found in: • Flexible plastic components (e.g., PVC) • Print pastes • Adhesives • Plastic buttons • Plastic sleevings • Polymeric coatings The listed Phthalates are those most commonly used and regulated across industry sectors.

| CAS No. | Substance | Test Method | Requirement |
|------------|----------------------------------------------------------------------------------------|---------------|-----------------|
| 28553-12-0 | Di-Iso-nonylphthalate (DINP) | | |
| 117-84-0 | Di-n-octylphthalate (DNOP) | | |
| 117-81-7 | Di(2-ethylhexyl)-phthalate (DEHP) | | |
| 26761-40-0 | Diisodecylphthalate (DIDP) | | |
| 85-68-7 | Butylbenzylphthalate (BBP) | | |
| 84-74-2 | Dibutylphthalate (DBP) | | |
| 84-69-5 | Diisobutylphthalate (DIBP) | | |
| 84-75-3 | Di-n-hexylphthalate (DnHP) | | |
| 84-66-2 | Diethylphthalate (DEP) | | < 1000ppm total |
| 131-11-3 | Dimethylphthalate (DMP) | | |
| 131-18-0 | Di-n-pentyl phthalate (DPENP) | EN ISO 14389 | |
| 84-61-7 | Dicyclohexyl phthalate (DCHP) | Others: GC/MS | |
| 71888-89-6 | 1,2-Benzenedicarboxylic acid, di-C6- 8-branched alkyl esters, C7-rich | | |
| 117-82-8 | Bis(2-methoxyethyl) phthalate | | |
| 605-50-5 | Diisopentyl phthalate (DIPP) | | |
| 131-16-8 | Dipropyl phthalate (DPRP) | | |
| 27554-26-3 | Diisooctyl phthalate (DIOP) | | |
| 68515-50-4 | Diisohexyl phthalate (DIHP) | | |
| 68515-42-4 | 1,2-Benzenedicarboxylic acid, di-C7- 11-branched and linear alkyl esters (DHNUP) | | |
| 84777-06-0 | 1,2-Benzenedicarboxylic acid Dipentyl ester, branched and linear | | |

PAHs

PAHs are natural components of crude oil and are common residues from oil refining. PAHs have a characteristic smell similar to that of car tires or asphalt. Oil residues containing PAHs are added to rubber and plastics as a softener or extender and may be found in rubber, plastics, lacquers and coatings. PAHs are often found in the outsoles of footwear and in printing pastes for screen prints. PAHs can be present as impurities in Carbon Black. They also may be formed from thermal decomposition of recycled materials during reprocessing

| CAS No. | Substance | Test Method | Requirement |
|------------|------------------------|--------------------------------|--------------|
| 56-55-3 | Benzo(a)anthracene | | |
| 50-32-8 | Benzo(a)pyrene | | |
| 205-99-2 | Benzo(b)fluoranthene | | |
| 192-97-2 | Benzo[e]pyrene | | |
| 205-82-3 | Benzo[j]fluoranthene | | <1 ppm cach |
| 207-08-9 | Benzo(k)fluoranthene | AfPS GS 2014-1 ISO/TS 16190 | |
| 218-01-9 | Chrysene | | |
| 53-70-3 | Dibenzo(a,h)anthracene | | < 1 ppm each |
| 191-24-2 | Benzo[ghi]perylene | | |
| 206-44-0 ; | Fluoranthene | | |
| 93951-69-0 | Fluoranthene | | |
| 85-01-8 | Phenanthrene | | |
| 129-00-0; | Durana | | |
| 1718-52-1 | Pyrene | | |



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ACIDIC AND ALKALINE SUBSTANCES

| CAS No. | Substance | Test Method | Requirement |
|---------|-----------|--------------------------------------------------------------------------------------------------------|---------------------------------------|
| Various | pH value | Textiles and Artificial Leather: EN ISO 3071:2006 (KCI Solution) Leather: EN ISO 4045:2018 | Textiles: 4.0–7.5 Leather: 3.5–7.5 |

CADMIUM

Cadmium compounds are used as pigments (especially in red, orange, yellow and green); as a stabilizer for PVC; and in fertilizers, biocides, and paints.

| CAS No. | Substance | Test Method | Requirement |
|-----------|--------------|--------------------------------|-------------|
| 7440-43-9 | Cadmium (Cd) | Textiles, plastics, and metal: | < 100ppm |
| | , , | DIN EN 16711-1 | |

LEAD

May be associated with plastics, paints, inks, pigments and surface coatings.

| CAS No. | Substance | Test Method | Requirement |
|-----------|-----------|----------------------|-------------|
| 7420 02 1 | L d (Dl-) | Textiles: EN 16711-1 | <500ppm |
| 7439-92-1 | Lead (Pb) | Leather: ISO 17072-2 | |

NICKEL

Nickel and its compounds can be used for plating alloys and improving corrosion-resistance and hardness of alloys. They can also occur as impurities in pigments and alloys.

| CAS No. | Substance | Test Method | Requirement |
|-----------|---------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 7440-02-0 | Nickel (Ni) release | EN 12472:2005+ A1:2009 and EN 1811:2015 | Release (metal parts): Prolonged skin contact: <0.5 µg/cm²/week Pierced part: <0.2 µg/cm²/week |

CHROMIUM VI

Though typically associated with leather tanning,

| CAS No. | Substance | Test Method | Requirement |
|-----------|--------------------------|---------------------------------------------------------------------|----------------|
| 7440-43-9 | Chromium VI after ageing | Leather: EN ISO 17075 Ageing: ISO 10195 A2 80° / 24h / RH<10% | Leather: 3 ppm |

EXTRACTABLE HEAVY METALS

| CAS No. | Substance | Test Method | Requirement |
|-----------|---------------------|--------------------------------------------------------------------------------------|----------------------------------------------|
| 7440-36-0 | Antimony (Sb) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather : < 30 mg/kg |
| 7440-38-2 | Arsenic (As) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather: < 1,0 mg/kg |
| 7440-39-3 | Barium (Ba) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather : < 1000 mg/kg |
| 7440-43-9 | Cadmium (Cd) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather: < 0,1 mg/kg |
| 7440-47-3 | Chromium (Cr) | Textile: EN 16711-2 | Textile: < 2,0 mg/kg |
| 7440-43-9 | Chromium VI (Cr VI) | Textile: EN 16711-2 and if detection of chromium ISO 17075-2 Leather: ISO 17075-2 | Textile: < 0,5 mg/kg Leather: < 3,0 mg/kg |
| 7440-48-4 | Cobalt (Co) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather : < 4,0 mg/kg |
| 7440-50-8 | Copper (Cu) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather : < 50 mg/kg |
| 7439-92-1 | Lead (Pb) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather: < 1,0 mg/kg |
| 7439-97-6 | Mercury (Hg) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather: < 0,02mg/kg |
| 7440-02-0 | Nickel (Ni) | Textile: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather: < 4,0 mg/kg |
| 7782-49-2 | Selenium (Se) | Textiles: EN 16711-2 Leather: ISO 17072-1 | Textile and Leather : < 100 mg/kg |

UV ABSORBERS / STABILIZERS

PU foam materials such as open cell foams for padding. Used as UV-absorbers for plastics (PVC, PET, PC, PA, ABS, and other polymers), rubber, polyurethane.

| CAS No. | Substance | Test Method | Requirement |
|----------------|-----------|-----------------------------|----------------|
| 3846-71- 7 | UV 320 | | |
| 3864-99-1 | UV 327 | ADIN EN 62321-6:2016-05 | |
| 25973- | UV 328 | (Extraction in THF/Solvent, | <1000 ppm each |
| 55-1 | | analysis by GC/MS) | |
| 36437- 37-3 | UV 350 | , , , , | |

FLAME RETARDANT

| CAS No. | Substance | Test Method | Requirement | | | |
|------------|--------------------------------------------------|----------------------------|---------------|--|--|--|
| 32534-81-9 | Pentabromodiphenyl ether (PentaBDE) | | | | | |
| 32536-52-0 | Octabromodiphenyl ether (OctaBDE) | | | | | |
| 1163-19-5 | Decabromodiphenyl ether (DecaBDE) | | | | | |
| Various | All other Polybrominated diphenyl ethers (PBDEs) | | | | | |
| 79-94-7 | Tetrabromobisphenol A (TBBP A) | | | | | |
| 59536-65-1 | Polybromobiphenyls (PBB) | | | | | |
| 3194-55-6 | Hexabromocyclododecane (HBCDD) | | | | | |
| 3296-90-0 | 0 2,2-bis(bromomethyl)-1,3-propanediol (BBMP) | | | | | |
| 13674-87-8 | Tris(1,3-dichloro-isopropyl) phosphate (TDCPP) | 150 47004 4 | < 10 ppm each | | | |
| 25155-23-1 | Trixylyl phosphate (TXP) | ISO 17881-1 ISO 17881-2 | | | | |
| 126-72-7 | Tris(2,3,-dibromopropyl) phosphate (TRIS) | | | | | |
| 545-55-1 | Tris(1-aziridinyl)phosphine oxide) (TEPA) | | | | | |
| 115-96-8 | Tris(2-chloroethyl)phosphate (TCEP) | | | | | |
| 5412-25-9 | Bis(2,3-dibromopropyl) phosphate (BDBPP) | | | | | |
| 12267-73-1 | Tetraboron disodium heptaoxide, hydrate | | | | | |
| 10043-35-3 | Boric acid | | | | | |
| 11113-50-1 | BOTIC acid | | | | | |
| 1303-96-4 | | | | | | |
| 1330-43-4 | Disodium tetraborate, anhydrous | | | | | |
| 12179-04-3 | | | | | | |
| 1303-86-2 | Diboron trioxide | | | | | |
| 12008-41-2 | Disodium octaborate | | | | | |

REPELLANT / WATERPROOF CHEMICALS

| CAS No. | Substance | Test Method | Requirement | |
|-------------------------------------|----------------------------------------------------------------------|-----------------------|-----------------|--|
| Various | Perfluorooctane Sulfonate (PFOS) and related substances | | 1 μg/m² each | |
| Various | Perfluorooctanoic Acid (PFOA) and related substances | | < 0,025 ppm | |
| 2058-94-8 | PFUdA: Henicosafluoroundecanoic acid | | | |
| 376-06-7 | PFTeDA: Heptacosafluorotetradecanoic acid | | | |
| 72629-94-8 | PFTrDA: Pentacosafluorotridecanoic acid | | | |
| 307-55-1 | PFDoA: Tricosafluorododecanoic acid | Leather : ISO 23702-1 | | |
| 3825-26-1 | APFO: Ammonium pentadecafluorooctanoate | CEN/TS 15968 | | |
| 375-95-1 21049-39-8 4149-60-4 | PFNA: Perfluorononan-1-oic-acid and its sodium and ammonium salts | | < 1000 ppm each | |
| - | PFDA: Nonadecafluorodecanoic acid, and its sodium and ammonium salts | | | |
| - | PFHxS: Perfluorohexane-1-sulfonic acid and its salts | | | |

QUINOLINE

Found as an impurity in polyester and some dyestuffs.

| CAS No. | Substance | Test Method | Requirement |
|---------|-----------|-------------------------------------------------------------------------------|-------------|
| 91-22-5 | Quinoline | All materials: AFPS GS 2014 / Extraction in Solvent, analysis by GC/MS, LC/MS | <50 ppm |

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VOC

These VOCs should not be used in textile auxiliary chemical preparations. They are also associated with solvent-based processes such as solvent-based polyurethane coatings and glues/adhesives.

| CAS No. | Substance | Test Method | Requirement |
|-----------|--------------------------------|----------------------------|------------------|
| 71-43-2 | Benzene | | Benzene: <5ppm |
| 75-15-0 | Carbon Disulfide | | Others < 1000ppm |
| 56-23-5 | Carbon Tetrachloride | | each |
| 67-66-3 | Chloroform | | |
| 108-94-1 | Cyclohexanone | | |
| 107-06-2 | 1,2-Dichloroethane | | |
| 75-35-4 | 1,1-Dichloroethylene | | |
| | | | |
| 100-41-4 | Ethylbenzene | | |
| 76-01-7 | Pentachloroethane | For general VOC screening: | |
| 630-20-6 | 1,1,1,2- Tetrachloroethane | GC/MS headspace 45 | |
| 79-34-5 | 1,1,2,2- Tetrachloroethane | minutes at 120 degrees C | |
| 127-18-4 | Tetrachloroethylene (PERC) | | |
| 108-88-3 | Toluene | | |
| 71-55-6 | 1,1,1- Trichloroethane | | |
| 79-00-5 | 1,1,2- Trichloroethane | | |
| 79-01-6 | Trichloroethylene | | |
| 1330-20-7 | | | |
| 108-38-3 | Xylenes (meta-, ortho-, para-) | | |
| 95-47-6 | Ayrenes (meta-, ortho-, para-) | | |
| 106-42-3 | | | |

ORGANOTIN COMPOUNDS

Class of chemicals combining tin and organics such as butyl and phenyl groups. Organotins are predominantly found in the environment as antifoulants in marine paints, but they can also be used as biocides (e.g., antibacterials), catalysts in plastic and glue production, and heat stabilizers in plastics/rubber. In textiles and apparel, organotins are associated with plastics/rubber, inks, paints, metallic glitter, polyurethane products and heat transfer material.

| CAS No. | Substance | Test Method | Requirement |
|---------|---------------------|-----------------------|-------------|
| Various | Dibutyltin (DBT) | | |
| Various | Dioctyltin (DOT) | All materials: | 4 1000 mmm |
| Various | Tributyltin (TBT) | CEN ISO/TS 16179:2012 | < 1000 ppm |
| Various | Triphenyltin (TPhT) | • | |

CHLOROBENZENE / CHLOROTOLUENE

| CAS No. | Substance | Test Method | Requirement |
|-----------|----------------------------|-------------|-------------|
| 100-44-7 | α-chlorotoluene | DIN 54222 | < 1ppm |
| 98-07-7 | α,α,α-trichlorotoluene | DIN 54232 | |
| 5216-25-1 | α,α,α,4-tetrachlorotoluene | | |

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6.2 Materials and risk sum up

- 1 Red indicates that a chemical has been in widespread use and/or frequently detected in a particular material.
- Orange indicates that a chemical has been deliberately used and/or detected in a particular material occasionally.
- 3 Yellow indicates there is a very low but theoretical chance that a chemical could be used and/or detected.
- White indicates that we believe there is an almost negligible risk of a chemical being used and/or detected.

| Substances | Natural fibers | Blended fibers | Synthetic fibers | Artificial leather with fiber backing | Natural leather | Coatings and prints | Natural materials including horns, bones, cork, wood, paper, and straw | Polymers, Plastics, Foams, Natural Rubber & Synthetic Rubber | Metal | Feathers & Down |
|----------------------------------|---------------------------------------------------|----------------|------------------|------------------------------------------|-----------------|---------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------|-------|-----------------|
| AZO DYES | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 |
| DISPERSE DYES | | 2 | 2 | 2 | | 2 | | | | |
| APEO | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 3 |
| FORMALDEHYDE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| DIMETHYLFUMARATE (DMFU) | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | | |
| DIMETHYLFORMAMIDE (DMFA) | | | | 2 | | 2 | | | | |
| SCCP | 3 | 3 | 3 | 3 | 1 | 3 | | 2 | | |
| PHTALATES | | | | 1 | | 1 | | 1 | | |
| PAHs | | | | 1 | | 1 | | 1 | | |
| CADMIUM | | | | 3 | | 3 | | 3 | 3 | |
| LEAD | | | | 3 | | 3 | | 3 | 3 | |
| NICKEL | | | | | | | | | 1 | |
| CHROMIUM VI | 3 | | | | 1 | | | | | |
| OTHER HEAVY METALS | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | | |
| FLAME RETARDANT | 3 (if finishing is applied) | | | | | | | | | |
| REPELLANT / WATERPROOF CHEMICALS | 2 (if water or stain repellant finish is applied) | | | | | | | | | |
| VOC | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | | |

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6.3 Kiabi control plan

According to previous information, Kiabi ask vendors to send labtest, for following substances.

Substances not mentioned need to be monitored by vendors according previous information and regulations in force. Kiabi reserve the right to perform random testing on these substances.

Labtest Rules: Accessories need to be considered as an article: sequins, interlining, button, snap, zipper. So results need to be given individually and not reported the whole finish garment

Exception, If Print: result need to be expressed according the whole item weight.

| Test | If Dyed Fabric | If Leather | If Coating/ Printing | If Plastics, Rubber, Foam | If Metal | If Glue | If cardbox gift | Test by color? | Mix possibility |
|--------------|--------------------------------------------------------|--------------|-------------------------|---------------------------------|------------------|---------|---------------------------------------|----------------|---------------------------------------------------------------------------|
| рН | Every products (part with skin contact) except jewells | | | | | | | YES | No mix |
| Formaldehyde | ✓ | ✓ | ✓ | | | ✓ | | NO | Babies: 2 parts homogeneous material Others: 3 parts homogeneous material |
| Phthalates | | | ✓ | ✓ | | | | NO | 3 parts homogeneous material |
| PAHS | | \checkmark | ✓ | √ | | | | NO | 3 parts homogeneous material |
| Cadmium | | | √ | √ | | | | NO | 3 colours max, same material |
| Nickel | | | | | ✓ jewells | | | NO | No mix |
| Lead | | | | | √ jewells | | | NO | 3 colours max, same material |
| Chrome VI | | ✓ | | | | | | YES | No mix |
| Heavy metals | | | | | | | According European Directive 94/62/CE | NO | No mix |

✓ =labtest required before shipment

Specificity by product:

Cardboard gift box: heavy metals tests required according EU 94/62/CE

Sleeping bags / Cot bumpers: refer to DOCQ16 and DOCQ18 for chemical test list and follow Kiabi RSL specification.



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6.4 Oeko tex

Kiabi encourage supplier to provide OEKO-TEX certification. This certificate need to precise:

- Date: need to be in force during Kiabi production.
- Process: scope of certificate need to precise all concerned production process using chemical. Example: Dying Finishing (prints, washing...) Trims (zipper, buttons, sequins...)
- Class of application: class 2 by default, and class1 if baby product.
- Scope of specifications: Refer to Annex 4.

In that case, supplier will be exempted to perform chemical test according Kiabi control plan.

Oeko tex certificate must be send to Procurement cell in Charge for archive.



7. SELF DECLARATION (SD) LABORATORY PROCESS

7.1 Why this process

The objective of KIABI SD lab Certification Program is to maintain a base of supplier in-house laboratory that is capable of accurately measuring and reporting the performance quality of KIABI product.

It is to ensure that all product testing performance is on behalf of KIABI that could meet the latest edition of KIABI Testing Requirements in terms of :

- Accurateness
- Standardization
- Quality Consistency
- Increasing Flexibility

Advantages of having an approved in-house lab is to be able to increase the testing capacity and to decrease the testing time (no longer need to wait for third party lab availability or publication of results), which is both more practical and economic and also leads to a better control over production quality and consistency.

Finally, a good running internal lab will further the bond between KIABI and its supplier **increasing their partnership**.

Once the supplier receives the accreditation he is considered as a **Kiabi Self-Declaration labtest approved supplier**.



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7.2 Terms and conditions

KIABI will be the one to initiate the accreditation process, without an invitation the supplier will not be able to apply. All the fees of the accreditation will be paid by the supplier.

Certificate:

The KIABI certificate will be issued once only and if supplier fulfils all the stages requirements of the accreditation process. The valid period of KIABI Certificates is 12 months. On it will be clearly written:

- Address of accredited laboratory, Name of accredited technician and Accredited test items
- Level of accreditation (bronze, silver or gold)
- Certificate issued Date and Expired Date
- Signatures of both KIABI and 3rd part lab Representatives

IF A TRAINED TECHNICIAN LEAVES OR IS REPLACED BY SOMEONE WHO DID NOT PARTICIPATE IN THE ON-SITE AUDIT, THE ACCREDITING ENTITY AND KIABI MUST BE NOTIFIED IMMEDIATELY. A FURTHER CERTIFICATION VISIT OR TRAINING VISIT MAY NEED TO BE ARRANGED.

Renewal of certification is at the end of the 12th month issued certificate period. Minimum entry requirements must always be met, however, **changes to the technician and/or the tests listed on the application may be made at the time of renewal**. A reminder that the certification is up for renewal and renewal forms will be sent to each accredited in-house laboratory 3 months prior to the year anniversary of the certification for a new 12 month renewal.

Control:

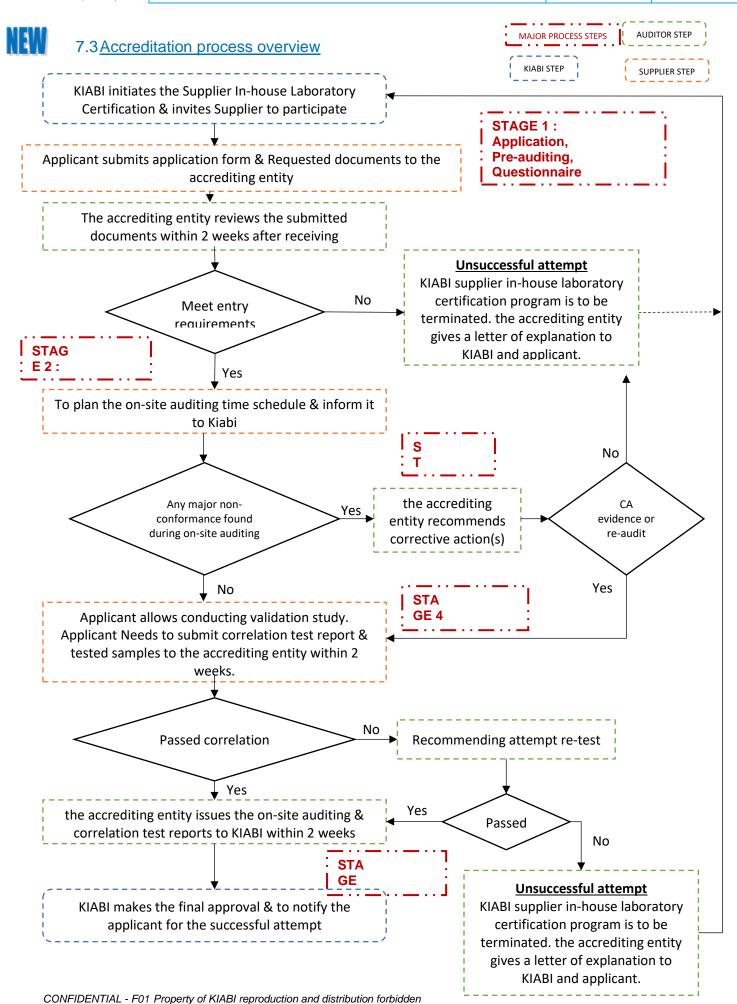
Correlation test will be performed by 3rd part lab for new accreditation or renewal.

A **regular audit** will be monitored by our technicians: at least once a year. During this audit, a special care must be given to the **calibration of the machines** used in the laboratory. One should be run at least once a year.*



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7.4 Correlation tests

The specimens for correlation will be prepared by both applicant and the 3rd part lab. The specimen selected at the factory must be sent to the 3rd part lab representative for process. The 1st correlation test cost is included in the package price. A correlation test report will be issued.

For renewal, correlation tests are not automatically included in renewal of accreditation process. Correlation tests can be added under Kiabi request according audits results or previous situation established by Kiabi technicians

Here is the detailed actions of the correlation test:

Samples to be tested

- Three apparels or fabrics, in different fabrications and colours (a light weight, medium weight, heavy weight and stretchable fabrics shall be included as possible), with sufficient amount of test samples
- Dark and medium shades must be used for correlation exercise

Tosting

- The tests realised by both the applicant an the accrediting entity will be determined by the scope of testing covered under the accreditation application
- The tests shall be completed with-in ten (10) working days and the test results and test specimens from KIABI's laboratory will be sent to accrediting entity upon completion. The results will also be sent from the applicant to the accrediting entity

Recults

- The accrediting entity will review the test specimens and test results statistically to evaluate the performance of each test conducted by KIABI
- The accrediting entity will identify and provide solutions for any inconsistencies that are highlighted by the correlation study

Final decision

- A full summary of the correlation study will be prepared by accrediting entity, which will be sent to both KIABI and APPLICANT LAB, this summary report should include accrediting entity recommendations whether the lab is approved or not
- If KIABI lab fails to meet the correlation requirements, the laboratory will be put on notice of warning. A second correlation must be completed within two (2) months. If the results of this second correlation are also unsatisfactory, the accreditation will be withdrawn



7.5 Final decision

The on-site audit report and the Correlation Report will be evaluated by the 3rd part lab and Kiabi Technical services. The evaluation will include

Accuracy of test results
Assessment of tested specimens
Compliance with prescribed test methods
Training of lab technicians
Proof of the completion of corrective actions of

Proof of the completion of corrective actions outlined in the on-site audit report if any



7.6 SD Labtest cancellation cases after accreditation

If some quality issues are found on one of the supplier's order, that have been tested in in house lab, and the quality issue is directly linked to one of the test,

Or if flagrant non compliancy (process, calibration, trainings...) are detected

then the accreditation will be suspended for 3 month until correctiv actions satisfying Kiabi process. In the contrary SD program will be cancelled.