

Report No.: 304147982a 001
Client: ALLFLASH PRODUKTIONS + VERTRIEBS GMBH
Contact Information: Lettenbachstr., Tussenhausen, Bavaria, Germany

Sample Description as Declared:

No. Of Sample : Four(4)
Colour : Fluorescent yellow, Fluorescent orange-red
Style No. : AL-1206, AL-1208, AL-1209, AL-1215, AL-1306, AL-1307, AL-1315, AL-1316
Style Name# : Kids Safety wests
Standard : EN 17353:2020 Protective clothing - Enhanced visibility equipment for medium risk situations - Test methods and requirements

Applicant's Provided Care Instruction/Label:



MAX 25X

Sample obtaining method: Sending by customer
Condition at delivery: Test item complete and undamaged.
Sample Receiving date: 2025-11-05
Testing Period: 2025-11-05 to 2025-11-12
Place of testing: Chemical laboratory Suzhou, Textiles laboratory Suzhou

For and on behalf of
TÜV Rheinland (Suzhou) Co., Ltd.

2025-11-14

Carmen Yan / Department Manager

Date

Name / Position

*Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.*

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Summary of Test Result(s):

| Test parameter | Result | Failed Material No. |
|---|-------------|---------------------|
| Fibre Composition - Quantitative Chemical Analysis | Pass | - |
| Dimensional Change To Washing | Pass | - |
| Appearance Change After Washing | Fail | M010,M012 |
| Colour Fastness To Rubbing | Pass | - |
| Colour Fastness To Perspiration | Pass | - |
| Colour Fastness To Washing | Pass | - |
| Colour Coordinates At New | Pass | - |
| Colour Coordinates After Xenon | Fail | M002,M004 |
| Colour Coordinates After Aging | Pass | - |
| Fabric Weight | No Comment | - |
| Retroreflective performance requirements of new material | Fail | M009 |
| Retroreflective performance requirements after test exposure | Pass | - |
| pH value | Pass | - |
| Banned azo dyes | Pass | - |

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Material List:

| Material No. | Material | Color | Location |
|---------------------|-----------------|------------------------|--|
| M001 | Textile | Fluorescent yellow | Main fabric |
| M002 | Textile | Fluorescent orange-red | Main fabric |
| M003 | Textile | Fluorescent yellow | Main recycle fabric |
| M004 | Textile | Fluorescent orange-red | Main recycle fabric |
| M005 | Textile | Fluorescent yellow | Velcro tape-loop |
| M006 | Textile | Fluorescent orange-red | Velcro tape-loop |
| M007 | Plastic | Fluorescent yellow | Velcro tape-hook |
| M008 | Plastic | Fluorescent orange-red | Velcro tape-hook |
| M009 | Textile | Silver grey | Reflective tape |
| M010 | Whole Product | Fluorescent yellow | Kids safety vest, 100% polyester |
| M011 | Whole Product | Fluorescent orange-red | Kids safety vest, 100% polyester |
| M012 | Whole Product | Fluorescent yellow | Kids safety vest, 100% recycle polyester |
| M013 | Whole Product | Fluorescent orange-red | Kids safety vest, 100% recycle polyester |

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1.Fibre Composition - Quantitative Chemical Analysis

Test method : ISO 1833-1:2020

| <u>M010</u> | <u>M012</u> | <u>Marked</u> |
|----------------|--------------------------|---------------|
| 100% Polyester | 100% Recycled Polyester* | 100%Polyester |

Verification: M010,M012
The mock-up fibre content label is appropriate for the submitted sample

Remark : * The reporting of Recycled Polyester is based on the lab test result identifying the fibre as Polyester along with the certificate of guaranty provided by the vendor that the Polyester fibre is Recycled Polyester. It is vendor's responsibility to have appropriate documentation to substantiate the claim that the fibre is Recycled Polyester.

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2. Dimensional Change To Washing

Test method : EN ISO 3759:2011 / EN ISO 6330:2021 / EN ISO 5077:2008

Apparatus : Front-loading horizontal rotating drum type

Test condition : Washing programme 4N, at 40°C, with 20g Non-phosphate detergent 3, 2kg loading, line dry

| | <u>M010</u> | | | <u>Requirement</u> |
|--------------------|-----------------------------------|--|---|--------------------|
| | <u>Before wash</u> <u>(cm)</u> | <u>After twenty - five</u> <u>washes</u> <u>(cm)</u> | <u>Dimensional change</u> <u>(%)</u> | |
| Chest | 43.8 | 43.0 | -1.8 | ±5% |
| Sweep | 42.8 | 42.2 | -1.4 | |
| Centre back length | 47.6 | 47.1 | -1.1 | |

| | <u>M011</u> | | | <u>Requirement</u> |
|--------------------|-----------------------------------|--|---|--------------------|
| | <u>Before wash</u> <u>(cm)</u> | <u>After twenty - five</u> <u>washes</u> <u>(cm)</u> | <u>Dimensional change</u> <u>(%)</u> | |
| Chest | 43.5 | 43.1 | -0.9 | ±5% |
| Sweep | 42.9 | 42.0 | -2.1 | |
| Centre back length | 47.2 | 46.9 | -0.6 | |

| | <u>M012</u> | | | <u>Requirement</u> |
|--------------------|-----------------------------------|--|---|--------------------|
| | <u>Before wash</u> <u>(cm)</u> | <u>After twenty - five</u> <u>washes</u> <u>(cm)</u> | <u>Dimensional change</u> <u>(%)</u> | |
| Chest | 43.6 | 42.9 | -1.6 | ±5% |
| Sweep | 43.0 | 42.2 | -1.9 | |
| Centre back length | 47.5 | 47.0 | -1.1 | |

| | <u>M013</u> | | | <u>Requirement</u> |
|--------------------|-----------------------------------|--|---|--------------------|
| | <u>Before wash</u> <u>(cm)</u> | <u>After twenty - five</u> <u>washes</u> <u>(cm)</u> | <u>Dimensional change</u> <u>(%)</u> | |
| Chest | 45.9 | 45.2 | -1.5 | ±5% |
| Sweep | 44.2 | 43.4 | -1.8 | |
| Centre back length | 51.1 | 50.5 | -1.2 | |

 Remark : (+) = Extension
 (-) = Shrinkage

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3.Appearance Change After Washing

Test method : EN ISO 6330:2021
 Apparatus : Front-loading horizontal rotating drum type
 Test condition : Washing programme 4N, at 40°C, with 20g Non-phosphate detergent 3, 2kg loading, line dry

| | <u>M010</u> | <u>Requirement</u> |
|-----------------------------------|---|--------------------|
| <u>After twenty - five washes</u> | | |
| Colour change | 4 | |
| Cross staining | 4-5 | |
| Observation | Slight print lost was found on the silver reflective tape. Slight loose ends were found along the edge of the silver reflective tape. The ends of the piping raveled. Moderate fading was found and letters/symbol not remain legible on the care label. | |
| Conclusion | The general appearance of the washed sample was unsatisfactory. | Satisfactory |

| | <u>M012</u> | <u>Requirement</u> |
|-----------------------------------|---|--------------------|
| <u>After twenty - five washes</u> | | |
| Colour change | 4 | |
| Cross staining | 4-5 | |
| Observation | Slight print lost was found on the silver reflective tape. Slight loose ends were found along the edge of the silver reflective tape. The ends of the piping raveled. Moderate fading was found and letters/symbol not remain legible on the care label. | |
| Conclusion | The general appearance of the washed sample was unsatisfactory. | Satisfactory |

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4.Colour Fastness To Rubbing

Test method : EN ISO 105-X12:2016

| | <u>M001</u> | <u>M002</u> | <u>M003</u> | <u>M004</u> | <u>Requirement</u> |
|------------|-------------|-------------|-------------|-------------|--------------------|
| <u>Dry</u> | | | | | 4 |
| - Length | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Width | 4-5 | 4-5 | 4-5 | 4-5 | |
| <u>Wet</u> | | | | | - |
| - Length | 4 | 4 | 4 | 4 | |
| - Width | 4 | 4 | 4 | 4 | |

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5.Colour Fastness To Perspiration

Test method : EN ISO 105-E04:2013

| | <u>M001</u> | | <u>M002</u> | | <u>Requirement</u> |
|-----------------|-------------|-----------------|-------------|-----------------|--------------------|
| | <u>Acid</u> | <u>Alkaline</u> | <u>Acid</u> | <u>Alkaline</u> | |
| Colour change | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| Colour staining | | | | | 4 |
| - Acetate | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Cotton | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Polyamide | 4 | 4 | 4-5 | 4-5 | |
| - Polyester | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Acrylic | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Wool | 4 | 4 | 4 | 4 | |
| | <u>M003</u> | | <u>M004</u> | | <u>Requirement</u> |
| | <u>Acid</u> | <u>Alkaline</u> | <u>Acid</u> | <u>Alkaline</u> | |
| Colour change | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| Colour staining | | | | | 4 |
| - Acetate | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Cotton | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Polyamide | 4 | 4 | 4-5 | 4-5 | |
| - Polyester | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Acrylic | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Wool | 4 | 4 | 4 | 4 | |

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6.Colour Fastness To Washing

Test method : EN ISO 105-C06:2010

Test condition : A2S, 30 min mechanical wash at 40°C in 0.4% ECE reference detergent with phosphates and 0.1% sodium perborate with 10 steel balls

| | <u>M001</u> | <u>M002</u> | <u>M003</u> | <u>M004</u> | <u>Requirement</u> |
|-----------------|-------------|-------------|-------------|-------------|--------------------|
| Colour change | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |
| Colour staining | | | | | 4 |
| - Acetate | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Cotton | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Polyamide | 4 | 4-5 | 4 | 4-5 | |
| - Polyester | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Acrylic | 4-5 | 4-5 | 4-5 | 4-5 | |
| - Wool | 4 | 4 | 4 | 4 | |

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7.Colour Coordinates At New

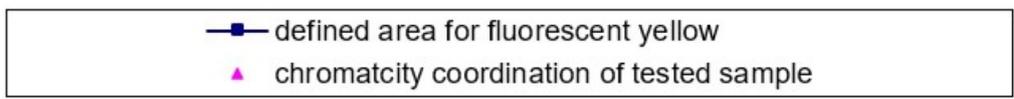
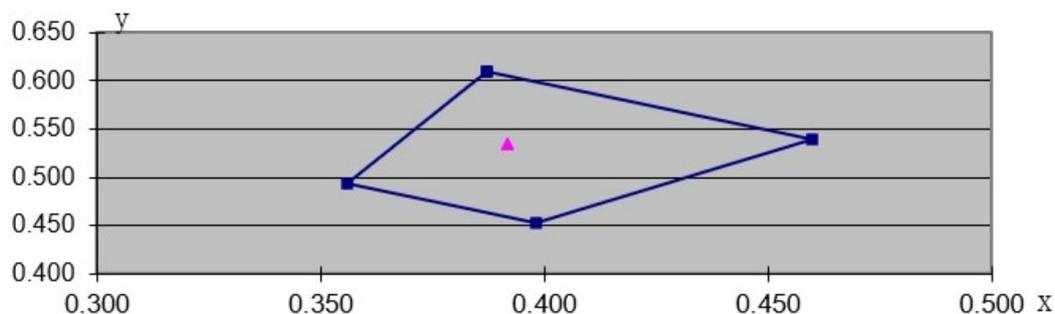
Test method : EN17353:2020 Clause 6.1.1

Colour : (M001/M003)Fluorescent yellow / (M002/M004)Fluorescent orange-red

| | <u>M001</u> | | <u>Requirement</u> |
|--------------------------|-------------|-------|--------------------|
| Chromaticity coordinates | | | See below |
| - x value | 0.392 | 0.392 | |
| - y value | 0.535 | 0.535 | |
| Luminance factor | 0.92 | 0.92 | |

Photo of chromaticity coordinates

fluorescent yellow at new



Conclusion

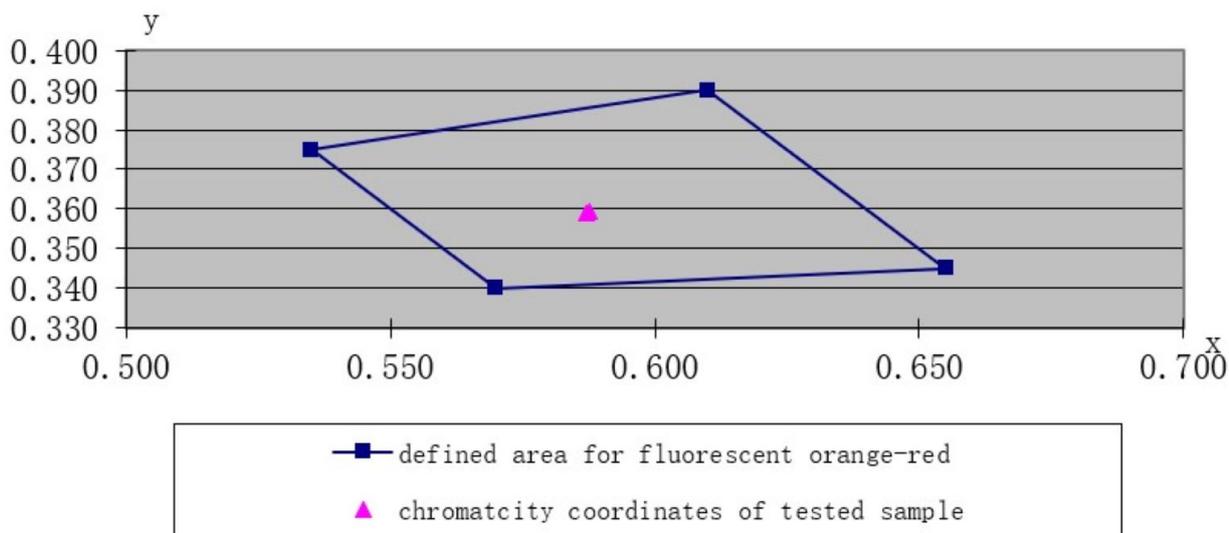
Pass

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| | <u>M002</u> | <u>Requirement</u> |
|--------------------------|-------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.588 | 0.587 |
| - y value | 0.359 | 0.359 |
| Luminance factor | 0.47 | 0.46 |

Photo of chromaticity coordinates

fluorescent orange-red at new



Conclusion

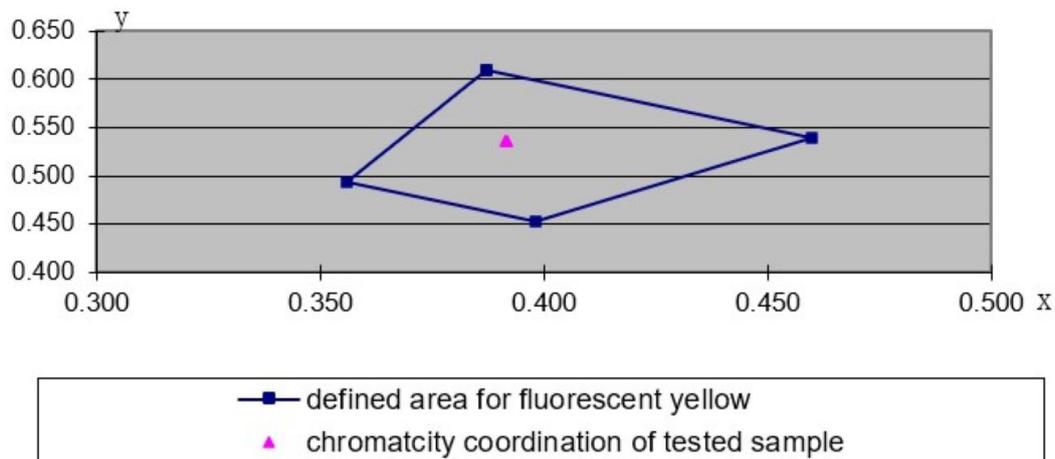
Pass

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| | <u>M003</u> | <u>Requirement</u> |
|--------------------------|-------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.392 | 0.392 |
| - y value | 0.535 | 0.535 |
| Luminance factor | 0.93 | 0.93 |

Photo of chromaticity coordinates

fluorescent yellow at new



Conclusion

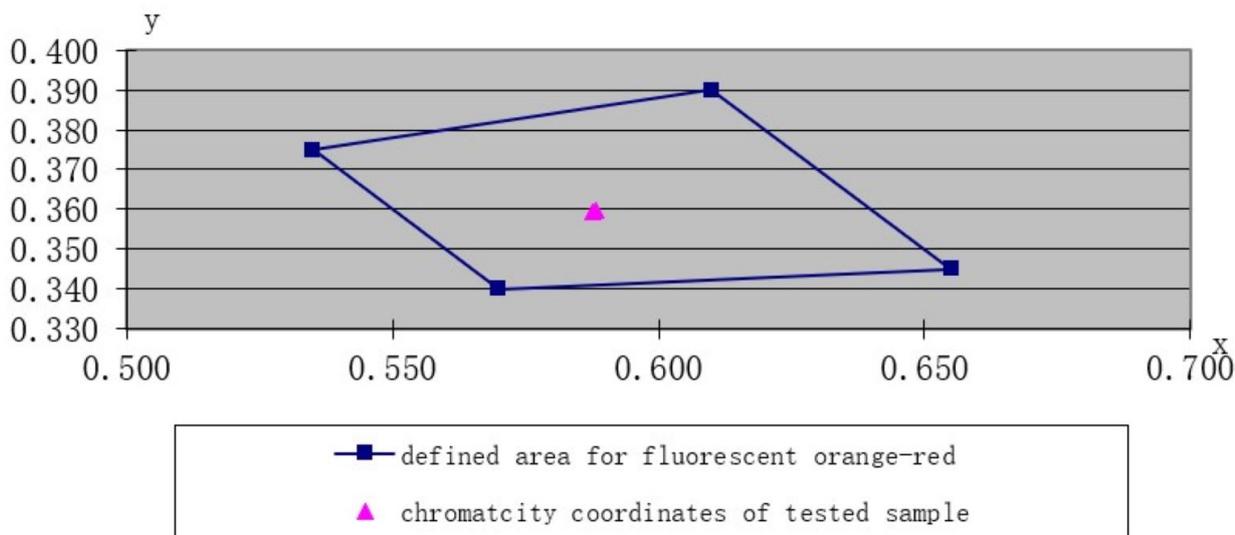
Pass

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| | <u>M004</u> | <u>Requirement</u> |
|--------------------------|-------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.588 | 0.588 |
| - y value | 0.360 | 0.359 |
| Luminance factor | 0.46 | 0.46 |

Photo of chromaticity coordinates

fluorescent orange-red at new



Conclusion

Pass

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Remark:

* Colour Requirement for Fluorescent Material:

| Colour | Chromaticity coordinates | | Minimum luminance factor β_{\min} | Colour | Chromaticity coordinates | | Minimum luminance factor β_{\min} |
|---------------------------|----------------------------------|----------------------------------|--|------------------------|----------------------------------|----------------------------------|--|
| | x | y | | | x | y | |
| Fluorescent yellow-green | 0,201 0,387 0,356 0,285 | 0,776 0,610 0,494 0,441 | 0,5 | Fluorescent orange-red | 0,535 0,610 0,655 0,570 | 0,375 0,390 0,345 0,340 | 0,4 |
| Fluorescent yellow | 0,356 0,387 0,460 0,398 | 0,494 0,610 0,540 0,452 | 0,7 | Fluorescent red | 0,570 0,655 0,690 0,595 | 0,340 0,345 0,310 0,315 | 0,25 |
| Fluorescent yellow-orange | 0,427 0,460 0,545 0,494 | 0,493 0,540 0,454 0,426 | 0,6 | Fluorescent pink | 0,690 0,495 0,372 0,415 | 0,310 0,155 0,272 0,315 | 0,3 |
| Fluorescent orange | 0,494 0,545 0,610 0,535 | 0,426 0,454 0,390 0,375 | 0,5 | | | | |

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8.Colour Coordinates After Xenon

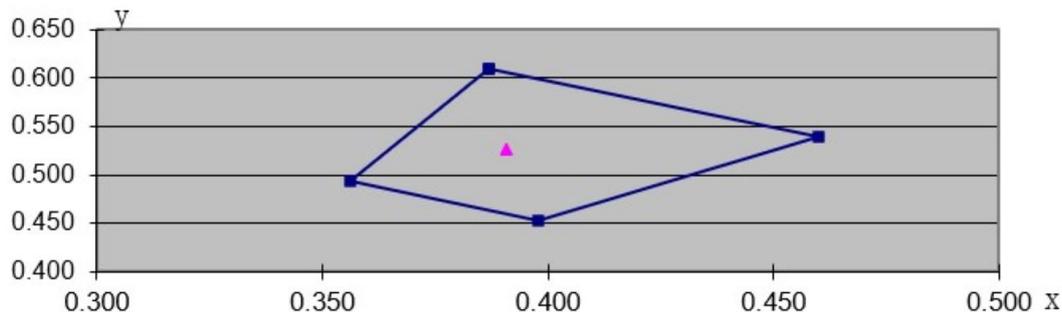
Test method : EN17353:2020 Clause 6.1.2

Colour : (M001/M003)Fluorescent yellow / (M002/M004)Fluorescent orange-red

| | <u>M001</u> | <u>Requirement</u> |
|--------------------------|-------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.391 | 0.391 |
| - y value | 0.526 | 0.526 |
| Luminance factor | 0.87 | 0.87 |

Photo of chromaticity coordinates

fluorescent yellow after xenon



■ defined area for fluorescent yellow
▲ chromaticity coordination of tested sample

Conclusion

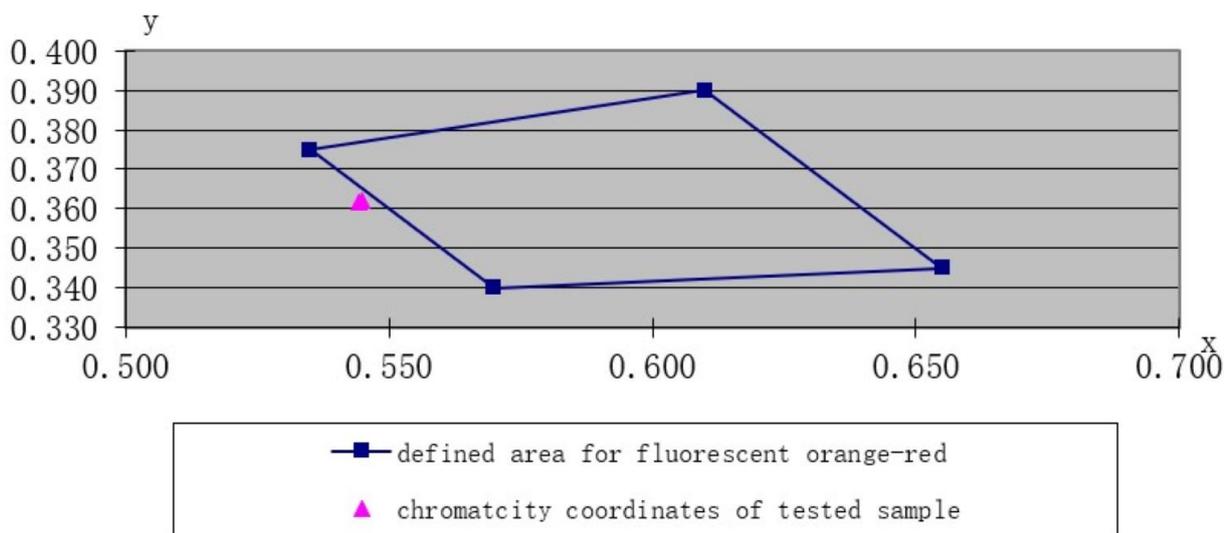
Pass

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| | <u>M002</u> | <u>Requirement</u> |
|--------------------------|-------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.545 | 0.544 |
| - y value | 0.362 | 0.362 |
| Luminance factor | 0.49 | 0.49 |

Photo of chromaticity coordinates

fluorescent orange-red after Xenon



Conclusion

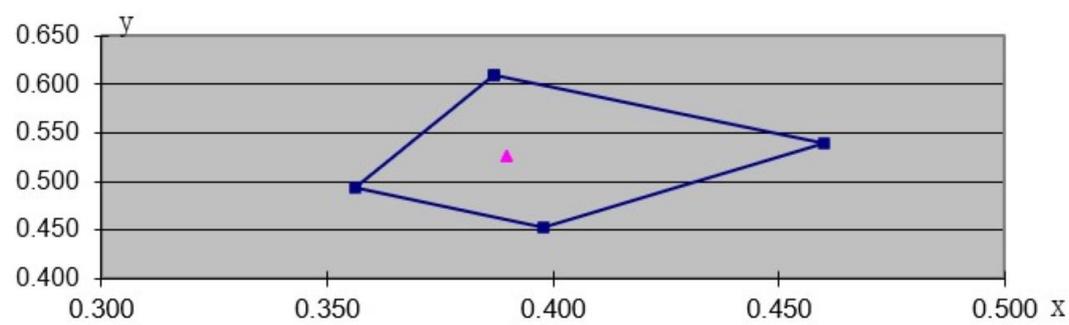
Fail

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| | <u>M003</u> | <u>Requirement</u> |
|--------------------------|-------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.390 | 0.390 |
| - y value | 0.526 | 0.526 |
| Luminance factor | 0.87 | 0.87 |

Photo of chromaticity coordinates

fluorescent yellow after xenon



■ defined area for fluorescent yellow
▲ chromaticity coordination of tested sample

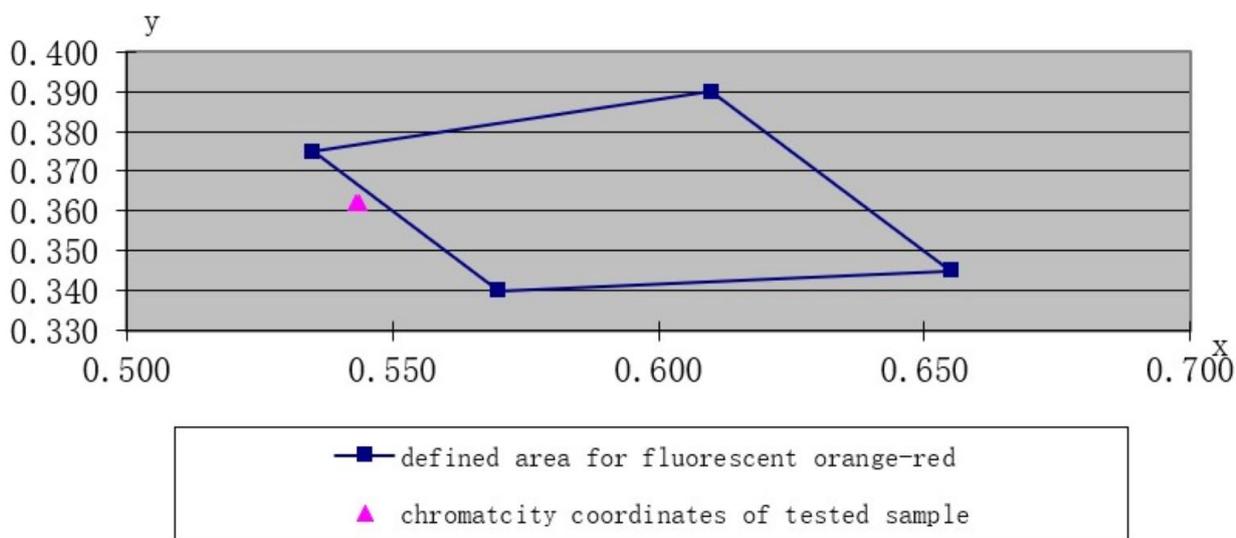
Conclusion Pass

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| | <u>M004</u> | <u>Requirement</u> |
|--------------------------|-------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.544 | 0.543 |
| - y value | 0.362 | 0.362 |
| Luminance factor | 0.49 | 0.49 |

Photo of chromaticity coordinates

fluorescent orange-red after Xenon



Conclusion

Fail

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Remark:

* Colour Requirement for Fluorescent Material:

| Colour | Chromaticity coordinates | | Minimum luminance factor β_{\min} | Colour | Chromaticity coordinates | | Minimum luminance factor β_{\min} |
|---------------------------|----------------------------------|----------------------------------|--|------------------------|----------------------------------|----------------------------------|--|
| | x | y | | | x | y | |
| Fluorescent yellow-green | 0,201 0,387 0,356 0,285 | 0,776 0,610 0,494 0,441 | 0,5 | Fluorescent orange-red | 0,535 0,610 0,655 0,570 | 0,375 0,390 0,345 0,340 | 0,4 |
| Fluorescent yellow | 0,356 0,387 0,460 0,398 | 0,494 0,610 0,540 0,452 | 0,7 | Fluorescent red | 0,570 0,655 0,690 0,595 | 0,340 0,345 0,310 0,315 | 0,25 |
| Fluorescent yellow-orange | 0,427 0,460 0,545 0,494 | 0,493 0,540 0,454 0,426 | 0,6 | Fluorescent pink | 0,690 0,495 0,372 0,415 | 0,310 0,155 0,272 0,315 | 0,3 |
| Fluorescent orange | 0,494 0,545 0,610 0,535 | 0,426 0,454 0,390 0,375 | 0,5 | | | | |

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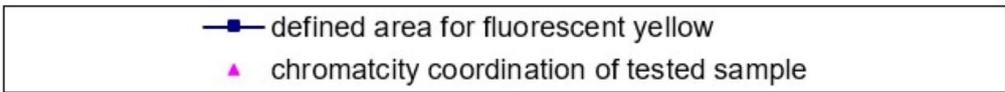
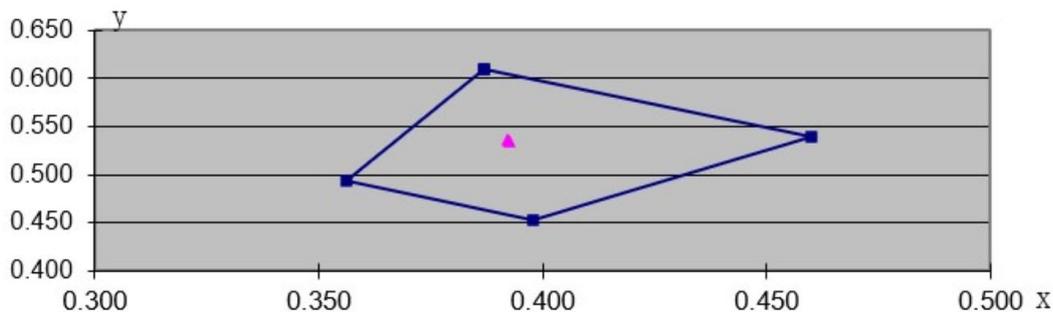
9.Colour Coordinates After Aging

Test method : EN17353:2020 Clause 7.5
 Test condition : 25 cycles of ISO 6330, washing programme 4N, at 40°C, Line Dry
 Colour : (M001/M003)Fluorescent yellow / (M002/M004)Fluorescent orange-red

| | <u>M001</u> | <u>Requirement</u> |
|--------------------------|-------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.392 | 0.392 |
| - y value | 0.536 | 0.535 |
| Luminance factor | 0.93 | 0.93 |

Photo of chromaticity coordinates

fluorescent yellow after washes



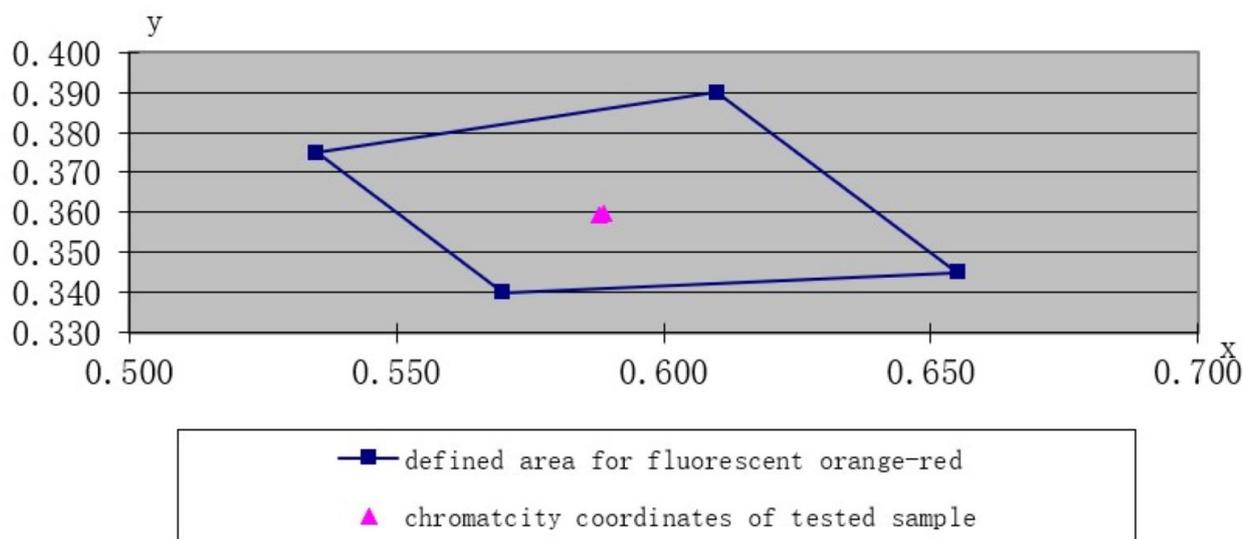
Conclusion Pass

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| | <u>M002</u> | <u>Requirement</u> |
|--------------------------|------------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.589 0.588 | |
| - y value | 0.360 0.359 | |
| Luminance factor | 0.48 0.48 | |

Photo of chromaticity coordinates

fluorescent orange-red after washes



Conclusion

Pass

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M003

Requirement

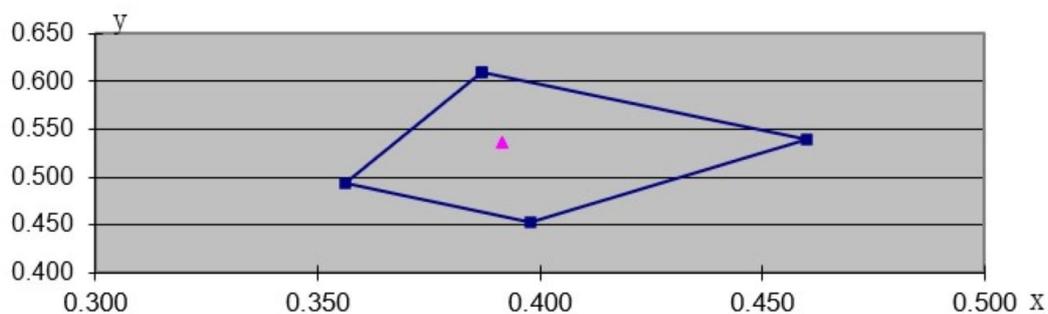
Chromaticity coordinates

See below

| | | |
|------------------|-------|-------|
| - x value | 0.392 | 0.391 |
| - y value | 0.536 | 0.536 |
| Luminance factor | 0.94 | 0.95 |

Photo of chromaticity coordinates

fluorescent yellow after washes



■ defined area for fluorescent yellow
▲ chromaticity coordination of tested sample

Conclusion

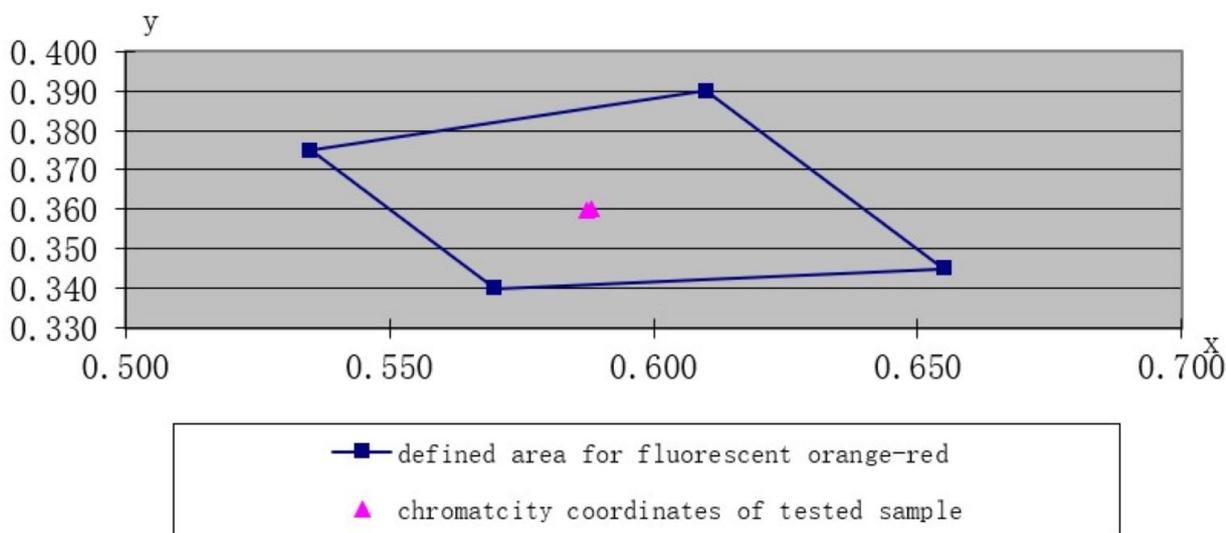
Pass

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| | <u>M004</u> | <u>Requirement</u> |
|--------------------------|------------------|--------------------|
| Chromaticity coordinates | | See below |
| - x value | 0.588 0.587 | |
| - y value | 0.360 0.360 | |
| Luminance factor | 0.48 0.48 | |

Photo of chromaticity coordinates

fluorescent orange-red after washes



Conclusion

Pass

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Remark:

* Colour Requirement for Fluorescent Material:

| Colour | Chromaticity coordinates | | Minimum luminance factor β_{\min} | Colour | Chromaticity coordinates | | Minimum luminance factor β_{\min} |
|---------------------------|----------------------------------|----------------------------------|---|------------------------|----------------------------------|----------------------------------|---|
| | x | y | | | x | y | |
| Fluorescent yellow-green | 0,201 0,387 0,356 0,285 | 0,776 0,610 0,494 0,441 | 0,5 | Fluorescent orange-red | 0,535 0,610 0,655 0,570 | 0,375 0,390 0,345 0,340 | 0,4 |
| Fluorescent yellow | 0,356 0,387 0,460 0,398 | 0,494 0,610 0,540 0,452 | 0,7 | Fluorescent red | 0,570 0,655 0,690 0,595 | 0,340 0,345 0,310 0,315 | 0,25 |
| Fluorescent yellow-orange | 0,427 0,460 0,545 0,494 | 0,493 0,540 0,454 0,426 | 0,6 | Fluorescent pink | 0,690 0,495 0,372 0,415 | 0,310 0,155 0,272 0,315 | 0,3 |
| Fluorescent orange | 0,494 0,545 0,610 0,535 | 0,426 0,454 0,390 0,375 | 0,5 | | | | |

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10.Fabric Weight

Test method : ISO 3801:1977, Method 1

| | <u>M001</u> | <u>M002</u> | <u>M003</u> | <u>Requirement</u> |
|---|-------------|-------------|-------------|--------------------|
| Mass per unit area (g/m ²) | 140 | 145 | 141 | - |
| | <u>M004</u> | | | <u>Requirement</u> |
| Mass per unit area (g/m ²) | 145 | | | - |

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11. Retroreflective performance requirements of new material

Test method : EN 17353: 2020, clause 6.3.1

| Observation angle/Entrance angle | <u>M009</u> | | <u>Requirement</u> |
|----------------------------------|---|---------------------------------|---|
| | coefficient of retroreflection in cd/(lx •m2) | | |
| | $\epsilon_1 = 0^\circ$ (Length) | $\epsilon_2 = 90^\circ$ (Cross) | Non - Orientation sensitive / Orientation Sensitive |
| 12°/5° | 447 | 447 | 330 / 247.5 |
| 12°/20° | 448 | 450 | 290 / 217.5 |
| 12°/30° | 442 | 443 | 180 / 135 |
| 12°/40° | 399 | 412 | 65 / 48.75 |
| 20°/5° | 349 | 348 | 250 / 187.5 |
| 20°/20° | 350 | 349 | 200 / 150 |
| 20°/30° | 341 | 344 | 170 / 127.5 |
| 20°/40° | 317 | 319 | 60 / 45 |
| 1°/5° | 22.6 | 22.0 | 25 / 18.75 |
| 1°/20° | 21.8 | 22.3 | 15 / 11.25 |
| 1°/30° | 21.5 | 22.2 | 12 / 9 |
| 1°/40° | 21.7 | 22.7 | 10 / 7.5 |
| 1°30'/5° | 21.7 | 21.7 | 10 / 7.5 |
| 1°30'/20° | 21.1 | 21.4 | 7 / 5.25 |
| 1°30'/30° | 20.7 | 21.2 | 5 / 3.75 |
| 1°30'/40° | 19.0 | 19.1 | 4 / 3 |

Conclusion: Fail

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12.Retroreflective performance requirements after test exposure

Test method : EN 17353: 2020, Clause 6.4

Observation angle : 12'

Entrance angle : 5°

Testing condition : 25 cycles of ISO 6330, washing program: 4N, at 40°C, line dry

| | <u>M009</u> | | <u>Requirement</u> |
|-----------------------------|---|-----|--|
| | coefficient of retroreflection in cd/(lx •m2) | | Non - Orientation sensitive / Orientation Sensitive 100 / 75 cd/(lx •m2) |
| <u>Exposure</u> | 0° | 90° | |
| Abrasion | 434 | 423 | 100 |
| Folding at cold temperature | 446 | 446 | 100 |
| Temperature variation | 433 | 434 | 100 |
| Washing | 328 | 333 | 100 |
| Dry cleaning | N/A | N/A | - |
| Influence of rain | 200 | 220 | 100 |

Conclusion: Pass

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13.pH value

Test Method: ISO 3071:2020

Test result:

| Test No. | Material No. | Temperature of KCl°C | pH value of KCl | <u>Average pH of KCL extract</u> | Customer's Requirement | Conclusion |
|----------|--------------|----------------------|-----------------|----------------------------------|------------------------|------------|
| T001 | M001 | 21 | 5.7 | 4.4 | 3.5-9.5 | Pass |
| T002 | M002 | 21 | 5.7 | 6.2 | 3.5-9.5 | Pass |
| T003 | M003 | 21 | 5.7 | 4.4 | 3.5-9.5 | Pass |
| T004 | M004 | 21 | 5.7 | 6.1 | 3.5-9.5 | Pass |
| T005 | M005 | 21 | 5.7 | 5.7 | 3.5-9.5 | Pass |
| T006 | M006 | 21 | 5.7 | 5.7 | 3.5-9.5 | Pass |
| T007 | M007 | 21 | 5.7 | 5.5 | 3.5-9.5 | Pass |
| T008 | M008 | 21 | 5.7 | 5.5 | 3.5-9.5 | Pass |

14. Banned azo dyes

Test Method: Method 1 - EN ISO 14362-1:2017 (Textiles) (Buffer extraction)
 Method 2 - EN ISO 14362-1:2017 (Textiles) (Xylene extraction)
 Method 3 - ISO 17234-1:2024 (Leather)
 Method 4 - EN ISO 14362-3:2017 (Textile, 4-aminoazobenzene confirmation)
 Method 5 - ISO 17234-2:2011 (Leather, 4-aminoazobenzene confirmation)

Test Results:

| ID | Test Parameter | Material No. | | | M001 + M002 + M003 | M004 + M005 + M006 | |
|--------------------|--|-----------------------------|-------|------------------------|--------------------------|--------------------------|------|
| | | Test No. | | | T001-2 | T002-2 | |
| | | Method No. | | | Method 2 | Method 2 | |
| | | A22 Confirmation Method No. | | | -- | -- | |
| | CAS NO | Unit | RL | Customer's Requirement | Result | Result | |
| A1 | 4-Aminobiphenyl | 92-67-1 | mg/kg | 5 | 30 | < RL | < RL |
| A2 | Benzidine | 92-87-5 | mg/kg | 5 | 30 | < RL | < RL |
| A3 | 4-Chloro-o-toluidine | 95-69-2 | mg/kg | 5 | 30 | < RL | < RL |
| A4 | 2-Naphthylamine | 91-59-8 | mg/kg | 5 | 30 | < RL | < RL |
| A5* | o-Aminoazotoluene | 97-56-3 | mg/kg | 5 | 30 | < RL | < RL |
| A6* | 5-nitro-o-toluidine / 2-Amino-4-nitrotoluene | 99-55-8 | mg/kg | 5 | 30 | < RL | < RL |
| A7 | 4-Chloroaniline | 106-47-8 | mg/kg | 5 | 30 | < RL | < RL |
| A8 | 4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole | 615-05-4 | mg/kg | 5 | 30 | < RL | < RL |
| A9 | 4,4'-Diaminodiphenylmethane | 101-77-9 | mg/kg | 5 | 30 | < RL | < RL |
| A10 | 3,3'-Dichlorobenzidine | 91-94-1 | mg/kg | 5 | 30 | < RL | < RL |
| A11 | 3,3'-Dimethoxybenzidine | 119-90-4 | mg/kg | 5 | 30 | < RL | < RL |
| A12 | 3,3'-Dimethylbenzidine | 119-93-7 | mg/kg | 5 | 30 | < RL | < RL |
| A13 | 4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | mg/kg | 5 | 30 | < RL | < RL |
| A14 | p-Cresidine | 120-71-8 | mg/kg | 5 | 30 | < RL | < RL |
| A15 | 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | mg/kg | 5 | 30 | < RL | < RL |
| A16 | 4,4'-Oxydianiline | 101-80-4 | mg/kg | 5 | 30 | < RL | < RL |
| A17 | 4,4'-Thiodianiline | 139-65-1 | mg/kg | 5 | 30 | < RL | < RL |
| A18 | o-Toluidine | 95-53-4 | mg/kg | 5 | 30 | < RL | < RL |
| A19 | 4-methyl-m-phenylenediamine / 2,4-Toluyldiamine | 95-80-7 | mg/kg | 5 | 30 | < RL | < RL |
| A20 | 2,4,5-Trimethylaniline | 137-17-7 | mg/kg | 5 | 30 | < RL | < RL |
| A21 | O-Anisidine | 90-04-0 | mg/kg | 5 | 30 | < RL | < RL |
| A22** | 4-Aminoazobenzene | 60-09-3 | mg/kg | 5 | 30 | < RL | < RL |
| Overall Conclusion | | | | | Pass | Pass | |

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram

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Remark:

- * The CAS-number 97-56-3 (A5) and 99-55-8 (A6) are further reduced to CAS-number 95-53-4 (A18) and 95-80-7 (A19).
- ** Azo colorants that are able to form 4-aminoazobenzene (A22) CAS-number 60-09-3, generate under the condition of this method Aniline (CAS-number 62-53-3) and 1,4-phenylenediamine (CAS-number 106-50-3.)
- *** Azo colorants that are able to form 4-aminoazobenzene (A22), is confirmed by EN ISO 14362-3:2017 / ISO 17234-2:2011.
- **** Azo colorants are detected & quantified by GC/MS and confirmed by HPLC/DAD or HPLC/MSMS.

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Sample Photos



- END -

General Terms and Conditions of Business of TÜV Rheinland in Greater China

- 1. Scope**
 - 1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China (the "GTCS") is intended to be used by the most part of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to the regions within the territories of China. The client hereof includes:
 - (a) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the use of a daily use;
 - (b) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.The following terms and conditions of business including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
 - 1.3 Any standard terms and conditions of the client may not be applied and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.
 - 1.4 In the contract for ongoing services with the client, this GTCS shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.
 2. **Quotations**

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.
 3. **Coming into effect and duration of contracts**
 - 3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being carried out by TÜV Rheinland. If the client requests TÜV Rheinland not to accept a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the offer by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.
 - 3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
 - 3.3 In the contract provided for an extension of the contract, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a three-month notice prior to the end of the contractual term.
 4. **Scope of services**
 - 4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be deemed to be the service to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking the correctness and functionality of parts, products, processes, installation, organization) not listed in the service description, as well as the intended use and application of such) are not owed. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.
 - 4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
 - 4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
 - 4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organizations, use and application in accordance with the system in which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulatory with the client, his questions are expressly covered by the contract.
 - 4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.
 - 4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration resulting additional services.
 - 4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.The client understands and agrees that the use of the system in which the installation is based, the client may not sign one or more contracts/agreements with a more third party(ies) and establish legal relationships with that/those third party(ies) according to such contracts/agreements, and assuming responsibility for the consequences of such contracts/agreements. If TÜV Rheinland engages and/or applies any third testing and certification bodies to provide testing and/or certification services on behalf of the client, TÜV Rheinland acts as an agent of the client in relation of such relevant services; therefore, TÜV Rheinland will merely bears the corresponding legal liability according to this contract and the direct services actually to be provided by our company in the service process. Besides, in order to achieve the purpose of the contract, the client hereby agrees that TÜV Rheinland can also sub-entrust to a third party to provide agency services, but TÜV Rheinland shall not bear any responsibility and/or risk for any services to be provided by any third parties (including agency services) provided by the client. In addition, if the client is required to conduct any annual review/surveillance of the relevant testing and/or certification service results and pay additional fees in accordance with the relevant laws and regulations or the testing and/or certification rules, such fees are not within the scope of the contract price, the client shall timely perform the obligation of such annual review/surveillance and pay the corresponding fees. If the client fails to perform such obligations of the annual review/surveillance or fees payment, it may lead to adverse consequences such as failure/suspension/cancellation/invalidity of testing and/or certification results, which shall not be borne by TÜV Rheinland.
 - 4.9 For the service contract agreed in the contract, the client is authorized to deliver relevant test samples, data, etc. to any overseas laboratory or other places or sites to be designated by the client. TÜV Rheinland shall not take any responsibilities or risks for any damages during such delivery and transportation process (including but not limited to any loss of damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.
 5. **Performance periods/dates**
 - 5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if confirmed as binding by TÜV Rheinland in writing.
 - 5.2 In the event of performance periods/dates of performance not caused by TÜV Rheinland, the client has submitted all relevant documents to TÜV Rheinland.
 - 5.3 Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.
 - 5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or if he has done so in time and in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.
 - 5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as fire, major strikes, business interruptions, government regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to remedy the hindrance.
 - 5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, it is the client's responsibility to agree on performance dates with TÜV Rheinland, which enable the client to meet the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.
 6. **The client's obligation to cooperate**
 - 6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
 - 6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:
 - a) it has required statutory qualifications;
 - b) the product, service or management system to be certified complies with applicable laws and regulations; and
 - c) it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract without prior notice; and ii) withdraw the issued testing/report/certificates if any.
 - 6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expenses.
 7. **Prices**
 - 7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on the actually incurred costs. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.
 - 7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
 - 7.3 If the execution of an order is delayed due to a "fundamental breach" of the contract or the agreed fixed prices exceeds €25,000 or its equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.
 8. **Payment terms**
 - 8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.
 - 8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, using the invoice and client numbers.
 - 8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
 - 8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland is entitled to cancel the contract and to claim a reasonable certificate, claim damages for non-performance and refuse to continue performance of the contract.
 - 8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or in which the commencement of insolvency proceedings has been dismissed due to lack of assets.
 - 8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.
 - 8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.
 - 8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase prices of raw materials increase. In this case, TÜV Rheinland shall not be liable for the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the time of expiry of the notice period.
 - 8.9 Only legally established and undisputed claims may be offset against claims due by TÜV Rheinland.
 - 8.10 TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to setoff against any fees due by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.
 9. **Acceptance of work**
 - 9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.
 - 9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work unless otherwise agreed in writing. In addition, the client shall be obliged to accept it immediately.
 - 9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.
 - 9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take a place.
 - 9.5 During the follow-up stage, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit date within two (2) weeks before the agreed date, TÜV Rheinland is entitled to immediately charge a lump sum for the audit. The client shall not be liable as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.
 - 9.6 In the event of a cancellation of the contract, the client shall be liable for the damage. The client shall be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.
 10. **Confidentiality**
 - 10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, test certificates, documents, pricing and financial information, customer and supplier information, and marketing techniques and materials, tangible or intangible, that are supplied, transferred or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic form. Confidential information also includes all data and know-how collected, compiled or otherwise obtained by TÜV Rheinland (non-personal and not proprietary to the client) within the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to use, further develop, disseminate or use for any third party platform and/or system for the purposes of developing new services, improving services, and analysing the provision of services.
 - 10.2 The disclosing party shall mark confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not take any confidentiality obligations towards such information. The client is authorized to send any confidential information to TÜV Rheinland. Instead, the client shall send any confidential information to company email of TÜV Rheinland employees through the company system. The client shall not be liable for damages due to any theft or leakages caused by the adoption of any unauthorized confidential information sharing methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.
 - 10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of work by TÜV Rheinland:
 - a) may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party;
 - b) may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract; and
 - c) may only be used by the receiving party for the purposes of performing the contract, unless required to pass on confidential information, inspection reports or documentation to the government authorities, judicial court, accreditation bodies or third parties (including but not limited to the client) and/or to the client's suppliers, subcontractors, manufacturers and/or manufacturers/whole equipment manufacturers, test standards or test requirements and providers of the client's test products and/or certified products, etc.) that are involved in the performance of the contract.
 - 10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party shall ensure these employees to observe the same level of secrecy as set forth in this confidentiality clause.
 - 10.4 Information for which the receiving party can furnish proof that:
 - a) it was not known to the disclosing party at the time it became general knowledge without violation of this confidentiality clause by the receiving party; or
 - b) it was disclosed to the receiving party by a third party entitled to disclose the information; or
 - c) the receiving party already possessed this information prior to disclosure by the disclosing party; or
 - d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute "confidential information" as defined in this confidentiality clause.
 - 10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or (ii) on request by the disclosing party, to destroy all confidential information, including all copies, and confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party at the latest and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.
 - 10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for its own.
11. **Copyrights and rights of use, publications**
 - 11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results calculations, presentations etc. prepared by TÜV Rheinland or its employees otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use ("right of use").
 - 11.2 The client receives a simple, unlimited, non-transferable, non-sub licensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports, test reports/results, results calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
 - 11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTCS is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.
 - 11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the general passing on.
 - 11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2, and any other use of the introduction of TÜV Rheinland need the prior written approval of TÜV Rheinland in each individual case. Besides, the client ensures that the aforesaid use shall comply with relevant applicable laws, regulations and relevant rules (including but not limited to specific applicable testing and certification rules, etc.).
 - 11.6 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at its own expense and, as far as possible, to withdraw publications.
 - 11.7 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of TÜV Rheinland.
12. **Liability of TÜV Rheinland**
 - 12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charging a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated liability ceiling of TÜV Rheinland exceeds 20,000 Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.
 - 12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its employees. Such limitation shall not apply to damages and/or losses of a physical injury or of a carcass nature.
 - 12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is treated as a breach of contractual obligation, the performance of which permits the dual performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any other circumstances are described in article 12.2 applies.
 - 12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract unless such personnel made available is regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.
 - 12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the extent of the damage caused by the client.
 - 12.6 The limitation periods for claims for damages shall be based on statutory provisions.
 - 12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.
13. **Export control**
- 13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China, the client must comply with the respectively applicable regulations of national and international export control law.
 - 13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargo or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.
14. **Data protection notice**

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its employees and the parties (including but not limited to the supplier of the client) for the purpose of fulfilling this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data of the client collected or processed by itself and transferred to TÜV Rheinland. For certain services, we may also process sensitive personal data. TÜV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has to be disclosed or transferred to any third party or to any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding request for deletion is received. Data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotektion@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.
 15. **Retention of test material and documentation**
 - 15.1 The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be retained to the client at the client's expense. The client includes at least samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.
 - 15.2 Copies apply if the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.
 - 15.3 If reference samples or documentations are given to the client to be placed in storage at their premises, the client includes at least samples or documentations, which are retained to TÜV Rheinland upon request promptly and free of charge. If the client, in response to such a request, is incapable of making available the reference samples and/or documentation, any liability claims for material and sampling damage arising from the storage, use and disposal of such samples and/or reference samples by the client against TÜV Rheinland shall be voided.
 - 15.4 The retention period for the documentation shall be 10 (ten) years after the expiry of the test mark certificate, unless the applicable legal requirements for EU/EEA certificates of conformity and GS mark certificates.
 - 15.5 The costs of the handover and dispatch of the test samples for storage on the client's premises are borne by the client. The client includes at least samples or documentations, which are retained to the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.
 16. **Termination of the contract**
 - 16.1 Notwithstanding clause 3.3 of the GTCS, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the combined parts of the contract, if the disclosing party fails to fulfil its obligations under the contract within six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the services due to a loss or a suspension of accreditation or notification.
 - 16.2 For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract without bearing any liabilities and the client shall pay the relevant service fees for the services provided by TÜV Rheinland until the termination date of the contract. The aforesaid good causes includes but not limited to the following:
 - a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the company website or by e-mail;
 - b) the client misuses the certificate or certification mark or uses it in violation of the contract;
 - c) in the event of several consecutive delays in payment (at least three times);
 - d) an substantial impediment or a substantial suspension of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship;
 - e) the client is in a state of insolvency or is subject to a compulsory liquidation or grossly negligent behavior of the managers, employees or agents of the client;
 - f) if TÜV Rheinland, for reasons beyond its control, is temporarily or finally not able or entitled to continue to provide the services, the client is in a state of insolvency or is subject to a compulsory liquidation, government interference, sanctions, loss of accreditation or notification, or other;
 - g) if the country/region involved in the whole contract or the specific service project in the contract does not have a sufficient level of accreditation or notification, and TÜV Rheinland believes that there is a risk or some risks beyond its control to continue to perform the contract.
 - 16.3 In the event of termination with written notice by TÜV Rheinland for good cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the contract. This claim as lump-sum compensation shall be subject to the client's obligation to prove that there is no damage or only a considerably lower damage. TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.
 - 16.4 TÜV Rheinland is authorized to give written notice with written notice if the client has not been able to make use of the time windows for auditing service provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore will be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.
17. **Force Majeure**
 - 17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that that Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it could not reasonably have been prevented at the time of the occurrence of the event; and (c) that the effects of the impediment could not reasonably have been overcome by the affected Party.
 - 17.2 In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 1 of this clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization; (ii) civil war, riot, rebellion or revolution, military or usurped power, insurrection, act of terrorism, sabotage or piracy; (iii) currency and trade restrictions, embargo, sanction; (iv) act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, requisition, nationalization; (v) plague, epidemic, natural disaster or extreme natural event; (vi) explosion, fire, destruction of equipment, prolonged break-down of transport, telecommunication, information system or energy; (vii) general labor disturbance such as boycott, strike and lock-out, go-slow, occupation of factories and premises.
 - 17.3 The Party successfully invoking Clause 17 is relieved from its duty to perform its obligations under the contract and from any liability in damages or from any other contractual remedy for breach of contract, from the time at which the impediment causes inability to perform, provided that the notice of the event is given without delay. If notice thereof is not given without delay, the relief is effected from the time at which notice thereof reaches the other Party. Where the effect of the impediment or event invoked is temporary, the above consequences shall apply only so long as the impediment (invoked) impedes performance of the contract. Where the duration of the impediment invoked has the effect of substantially depriving the contracting Parties of all that they were reasonably entitled to expect under the contract, either Party has the right to terminate the contract by notification within 120 days of the termination of the impediment. If the duration of the impediment exceeds 120 days, the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.
 18. **Hardship**
 - 18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.
 - 18.2 Notwithstanding paragraph 1 of this Clause, where a Party proves that:
 - (a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and that
 - (b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.
 - 18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.
 19. **Partial invalidity, written form, place of jurisdiction and dispute resolution**
 - 19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 19.1.
 - 19.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.
 - 19.3 The contracting parties hereby agree that the applicable law of the contract and these terms and conditions shall be chosen following the rules as below:
 - a) If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's Republic of China.
 - b) If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.
 - c) If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.
 - 19.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiation. If no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted to arbitration.
 - a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) in Beijing, China. The arbitration shall be conducted in accordance with its then current Rules of Arbitration. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.
 - b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association (Taipei) to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.
 - c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to the Hong Kong International Arbitration Centre (HKIAC) to be arbitrated in accordance with its then current Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.The decision of the arbitral shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.