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# TEST REPORT

**NUMBER:** LTR22080125A

**APPLICANT:** Ink Experts ltd
Unit 6C Wednesfield Business Park
Waddens Brook Lane
Wolverhampton
WV11 3SF

**DATE:** 23 August 2022

For the attention of Alex Goodier

**SAMPLE DESCRIPTION:** DTF Direct to Film Inkjet Inks – Black, Cyan, Magenta, Yellow & White

**REFERENCE / STYLE NO.:** Fusion DTF

**BATCH NO.:** P10141110-280-Black, P10261110-280-Cyan, P10261110-290-Magenta, P09161110-010-Yellow, P014110-150-White

**RETAILER:** Ink Experts ltd

**SAMPLES RECEIVED:** 17 August 2022

**PURCHASE ORDER:** None

**TEST REQUEST:** ^BS EN 71-3: 2019+A1:2021, EN 71-3: 2019+A1:2021

**CONCLUSION:** The results of the tests carried out **MEET** the requirements of the requested Standard

Tests marked (^) in this report are included in the scope of accreditation of the sub-contractor who performed the test.
Tests marked (*) in this report are not included in our UKAS scope of accreditation.
Tests marked (**) in this report are not included in the scope of accreditation of the sub-contractor who performed the test.
Opinions, interpretations and comments expressed herein are outside the scope of accreditation.

GEORGE HALL
QHSE MANAGER

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**Specification:** **BS EN 71-3: 2019+A1:2021, EN 71-3: 2019+A1:2021**
Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP-MS

| ***Category*** | ***TEST*** | ***RESULTS*** |
|---|---|---|
| II | Liquid/sticky | Pass |

**Note:** The results for chromium (III), chromium (VI) and organic tin are based on the overall migration of chromium and tin respectively and specific testing for these chemicals was not carried out (unless confirmation testing is indicated). This is in accordance with Annex I of the standard.

## MATERIALS SAMPLED

| No. | DESCRIPTION | Sample weight (<100mg) |
|---|---|---|
| | **CATEGORY II – LIQUID / STICKY** | |
| 1 | Black ink | |
| 2 | White ink | |
| 3 | Magenta ink | |
| 4 | Cyan ink | |
| 5 | Yellow ink | |

Where sample weights are written above these were less than 100 mg. The migration results below for these samples have been calculated as though the sample weight were 100 mg.

## CATEGORY II – LIQUID / STICKY

| | Analytical Results | | | | | | | | | | | | | | | | | Theoretical Maximum Results | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Element | Sb | As | Ba | Cd | Cr | Pb | Hg | Se | Al | B | Co | Cu | Mn | Ni | Sr | Sn | Zn | Cr (III) | #Cr (VI) | ##OT |
| EN71-3 Limit | 11.3 | 0.9 | 375 | 0.3 | – | 0.5 | 1.9 | 9.4 | 560 | 300 | 2.6 | 156 | 300 | 18.8 | 1125 | 3750 | 938 | 9.4 | 0.005 | 0.2 |
| 1 | <0.2 | <0.1 | <100 | <0.125 | <0.004 | <0.125 | <0.05 | <3 | <400 | <100 | <0.5 | <50 | <100 | <6 | <250 | <0.2 | <300 | <0.004 | <0.004 | <0.2 |
| 2 | <0.2 | <0.1 | <100 | <0.125 | <0.004 | <0.125 | <0.05 | <3 | <400 | <100 | <0.5 | <50 | <100 | <6 | <250 | <0.2 | <300 | <0.004 | <0.004 | <0.2 |
| 3 | <0.2 | <0.1 | <100 | <0.125 | <0.004 | <0.125 | <0.05 | <3 | <400 | <100 | <0.5 | <50 | <100 | <6 | <250 | <0.2 | <300 | <0.004 | <0.004 | <0.2 |
| 4 | <0.2 | <0.1 | <100 | <0.125 | <0.004 | <0.125 | <0.05 | <3 | <400 | <100 | <0.5 | <50 | <100 | <6 | <250 | <0.2 | <300 | <0.004 | <0.004 | <0.2 |
| 5 | <0.2 | <0.1 | <100 | <0.125 | <0.004 | <0.125 | <0.05 | <3 | <400 | <100 | <0.5 | <50 | <100 | <6 | <250 | <0.2 | <300 | <0.004 | <0.004 | <0.2 |

The reporting limits are as stated in the table above.
OT = Organic tin
All results and the limits are quoted as mg/kg (ppm) of the named material.

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† Sample weight of items marked with a cross was less than 100mg. The toxic metal content has been calculated as though the sample weight were 100mg.

*# Actual levels of chromium (III) or chromium (VI) have not been determined in this analysis, only overall levels of migratable chromium (III) have been analysed: the maximum theoretical amount of chromium (VI) will be equal to or less than the number reported above. Where the value in either of these columns is greater than the associated limit we would advise further testing to accurately determine chromium (III) chromium (VI) levels.*
*In the case of Category 2 samples we advise testing for chromium (III) and chromium (VI) is carried out on all samples due to the very low PASS/FAIL limit related to these materials*
*## Actual levels of organic tin have not been determined in this analysis: the maximum theoretical amount of any single organic tin can be different. The result for organic tin presented is calculated as if all the tin were present as TBT (Tri-butyl Tin) only.*

**Date of Testing**: 18–22 August 2022


## END OF REPORT





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