



Test Report

No.: 70.452.23.12149.01
Date: 2023-12-01

Applicant: NANJING ZHONGLONG BOCHUANG OUTDOOR PRODUCTS CO., LTD
Address: ROOM 3F04-1, NO. 98, CHENGUANG ROAD, QINHUI DISTRICT, NANJING, JIANGSU PROVINCE, CHINA
Product Name: Framed back carrier
Model No: YAK-III
Brand: WIPHA
Manufacturer: Nanjing Zhonglong Bochuang Outdoor Products Co., Ltd
Factory: YANGZHOU HUADE TOURISM AND SPORTS GOODS CO., LTD
Receipt Date of Sample: 2023-05-10, 2023-07-07, 2023-07-19
Date of Testing: 2023-05-10 ~ 2023-12-01
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. EN 71-3:2019+A1:2021- Migration of certain elements	Pass
2. Polycyclic Aromatic Hydrocarbons (15 PAHs)	Pass
3. Directive 2009/48/EC and Amendment Commission Directive (EU) 2021/903 Appendix C - Aniline Content	Pass
4. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 & 52 - Phthalates Content	Pass
5. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
6. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 43 - Azocolourants Content	Pass
7. Colour Fastness to Saliva & Sweat	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. ≤ Less than
4. 1 mg/kg = 1 ppm = 0.0001%



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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Testing Center

Prepared by:

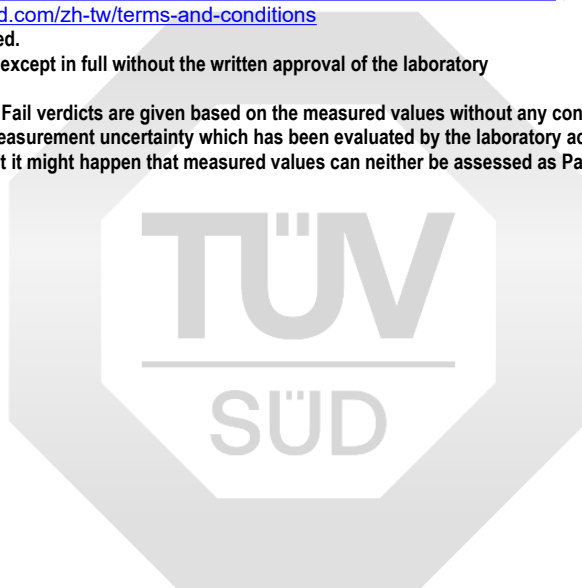

Jenny Yao
Technical Engineer

Authorized by:


Sawyer Tang
Technical Manager

Note:

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- (2) The results relate only to the Items tested.
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- (4) Disclaimer Measurement Uncertainty:
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.



Laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd.

Shanghai Branch, Testing Center

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Shanghai Branch, TÜV SÜD Group

Floor 11-12, No 151, Hengtong Road, Jing'an District, Shanghai

Description of Tested Subject:

Sample	Description	Photo
001	Framed back carrier	
002	Framed back carrier	

T. No	Sample	Description
T1	003	Black fabric with silvery coating, 001
T2	004	Blue fabric, 002
T3	005	Silvery thread logo, 001/002
T4	006	Light grey fabric lining, 001/002
T5	007	Light grey fabric webbing belt, binding 001/002
T6	008	Black plastic zipper teeth 001/002
T7	009	Black coating on metal, zipper head 001
T8	010	Black coating on metal, zipper head 002
T9	011	Black fabric, zipper tape 001/002
T10	012	Black webbing tape, 001/002
T11	013	Silver reflective fabric, 001/002
T12	014	Blue/ yellow embroidery thread label 001/002
T13	015	Grey coating on metal, frame 001/002
T14	016	Silvery aluminum film, 001/002
T15	017	Light grey coating on metal, zipper head 001/002
T16	018	Light grey fabric, zipper tape 001/002
T17	019	Light grey plastic, zipper teeth 001/002
T18	020	Black plastic hook fastener 001/002
T19	021	Black textile loop fastener 001/002



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

T. No	Sample	Description
T20	022	Grey plastic, buckle 001/002
T21	023	Grey mesh fabric, 001/002
T22	024	Light grey thick mesh fabric, 001/002
T23	025	Grey plastic, stopper of rope 001/002
T24	026	Black thick rope 001/002
T25	027	Black thin rope 001/002
T26	028	Deep grey fabric, 001/002
T27	029	Black plastic, safety buckle 001/002
T28	030	Light grey plastic, button on safety buckle 001/002
T29	031	Light grey plastic, small hook 001/002
T30	032	Grey fabric with grey soft plastic dot, 001/002
T31	033	Red plastic, buckle 001/002
T32	034	Black elastic band 001/002
T33	035	Black elastic band 001/002
T34	036	Black smooth fabric, binding 001/002
T35	037	Grey elastic band 001/002
T36	038	White coated label with wash black coating 001/002
T37	039	White coated label with blue/black coating, 001/002
T38	040	Black plastic, joint 001/002
T39	041	White plastic, gasket 001/002
T40	042	Black fabric, binding 001/002
T41	044	Black plastic, pad 001/002
T42	045	Black soft plastic, board 001/002
T43	046	Black plastic board, 001/002
T44	047	Black foam, 001/002
T45	048	Black foam, 001/002
T46	049	Black sponge 001/002
T47	050	Black sponge 001/002
T48	051	Light black foam, 001/002
T49	052	Black soft plastic, piping 001/002
T50	053	Black plastic, pad 001/002
T51	054	Transparent plastic, pad 001/002
T52	055	Black plastic, pad 001/002
T53	056	Black plastic, pad 001/002
T54	057	Black plastic, pad 001/002
T55	058	Transparent plastic, pad 001/002
T56	059	Black coating on metal, frame 001/002
T57	060	Dark grey mesh fabric, 001/002
T58	061	Dark grey thick mesh fabric, 001/002
T59	062	Dark grey big mesh fabric, 001/002
T60	063	Dark grey fabric with dark grey soft plastic dot, 001/002
T61	064	Dark grey plastic, safety buckle 001/002
T62	065	Black plastic, 001/002
T63	066	White fabric with black/orange coating, label 001/002

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Test Result(s):

1. EN 71-3:2019+A1:2021- Migration of certain elements

Test with reference to EN71-3:2019+A1:2021, determination by ICP-OES/ICP-MS.

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			003	004
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	24.2
Conclusion			Pass	Pass

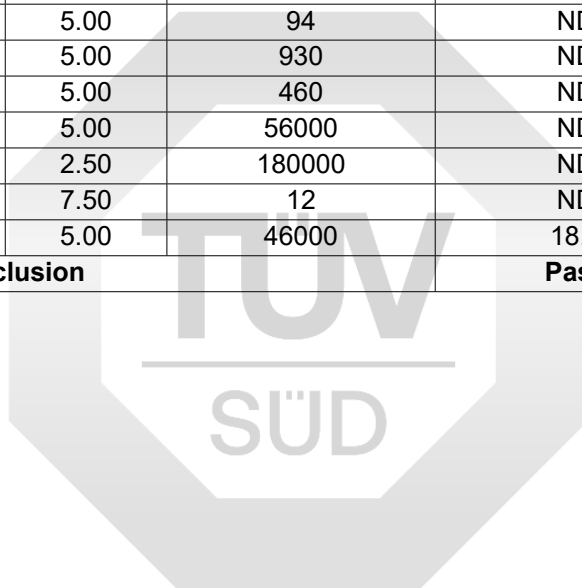


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Aluminum	5.00	28130	ND	5.43
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	0.402
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	18.0	ND
Conclusion			Pass	Pass



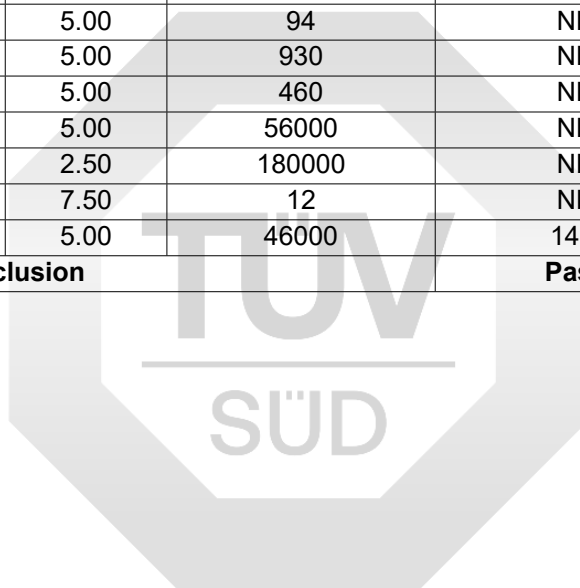


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			007	008
Soluble Aluminum	5.00	28130	25.5	6.20
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.151	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	14.2	ND
Conclusion			Pass	Pass



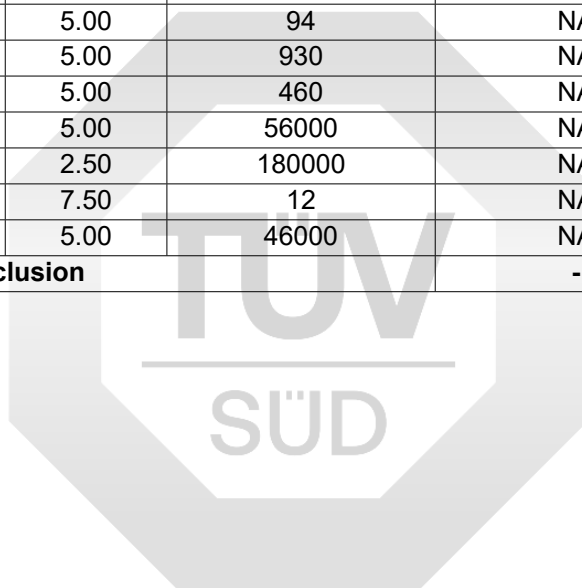


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			009	010
Soluble Aluminum	5.00	28130	NA	NA
Soluble Antimony	5.00	560	NA	NA
Soluble Arsenic	5.00	47	NA	NA
Soluble Barium	5.00	18750	NA	NA
Soluble Boron	5.00	15000	NA	NA
Soluble Cadmium	5.00	17	NA	NA
Soluble Chromium III	0.04	460	NA	NA
Soluble Chromium VI	0.04	0.053	NA	NA
Soluble Cobalt	5.00	130	NA	NA
Soluble Copper	5.00	7700	NA	NA
Soluble Lead	5.00	23	NA	NA
Soluble Manganese	5.00	15000	NA	NA
Soluble Mercury	5.00	94	NA	NA
Soluble Nickel	5.00	930	NA	NA
Soluble Selenium	5.00	460	NA	NA
Soluble Strontium	5.00	56000	NA	NA
Soluble Tin	2.50	180000	NA	NA
Organic Tin	7.50	12	NA	NA
Soluble Zinc	5.00	46000	NA	NA
Conclusion			-	-



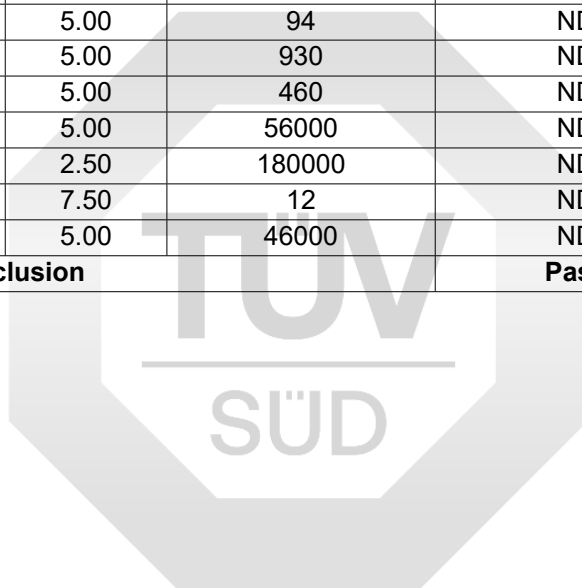


Test Report

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Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Aluminum	5.00	28130	9.28	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.151	0.403
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	8.40
Conclusion			Pass	Pass



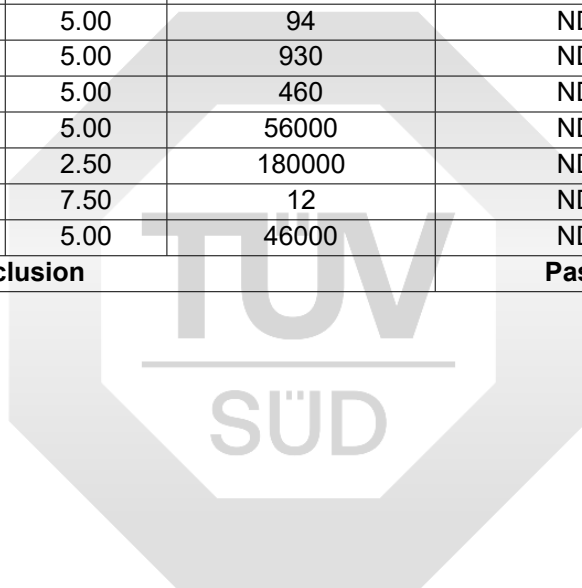


Test Report

No.: 70.452.23.12149.01

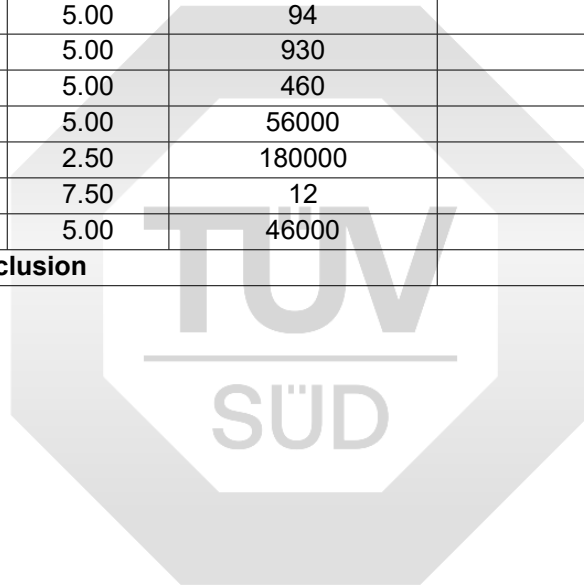
Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			013	014
Soluble Aluminum	5.00	28130	73.9	5.15
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	29.5	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.201	0.150
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



Test Report**No.: 70.452.23.12149.01**
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Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]
			015
Soluble Aluminum	5.00	28130	542
Soluble Antimony	5.00	560	ND
Soluble Arsenic	5.00	47	ND
Soluble Barium	5.00	18750	643
Soluble Boron	5.00	15000	ND
Soluble Cadmium	5.00	17	ND
Soluble Chromium III	0.04	460	0.300
Soluble Chromium VI	0.04	0.053	ND
Soluble Cobalt	5.00	130	ND
Soluble Copper	5.00	7700	ND
Soluble Lead	5.00	23	ND
Soluble Manganese	5.00	15000	ND
Soluble Mercury	5.00	94	ND
Soluble Nickel	5.00	930	ND
Soluble Selenium	5.00	460	ND
Soluble Strontium	5.00	56000	19.2
Soluble Tin	2.50	180000	ND
Organic Tin	7.50	12	ND
Soluble Zinc	5.00	46000	10.6
Conclusion			Pass



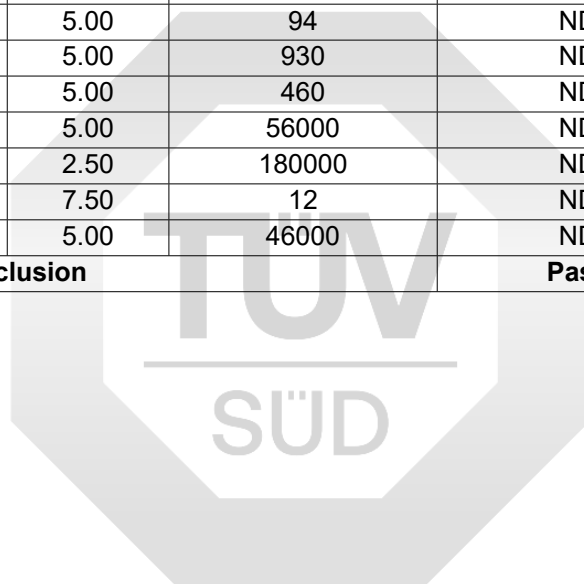


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			016	017
Soluble Aluminum	5.00	28130	15.9	NA
Soluble Antimony	5.00	560	ND	NA
Soluble Arsenic	5.00	47	ND	NA
Soluble Barium	5.00	18750	5.05	NA
Soluble Boron	5.00	15000	ND	NA
Soluble Cadmium	5.00	17	ND	NA
Soluble Chromium III	0.04	460	ND	NA
Soluble Chromium VI	0.04	0.053	ND	NA
Soluble Cobalt	5.00	130	ND	NA
Soluble Copper	5.00	7700	ND	NA
Soluble Lead	5.00	23	ND	NA
Soluble Manganese	5.00	15000	ND	NA
Soluble Mercury	5.00	94	ND	NA
Soluble Nickel	5.00	930	ND	NA
Soluble Selenium	5.00	460	ND	NA
Soluble Strontium	5.00	56000	ND	NA
Soluble Tin	2.50	180000	ND	NA
Organic Tin	7.50	12	ND	NA
Soluble Zinc	5.00	46000	ND	NA
Conclusion			Pass	-



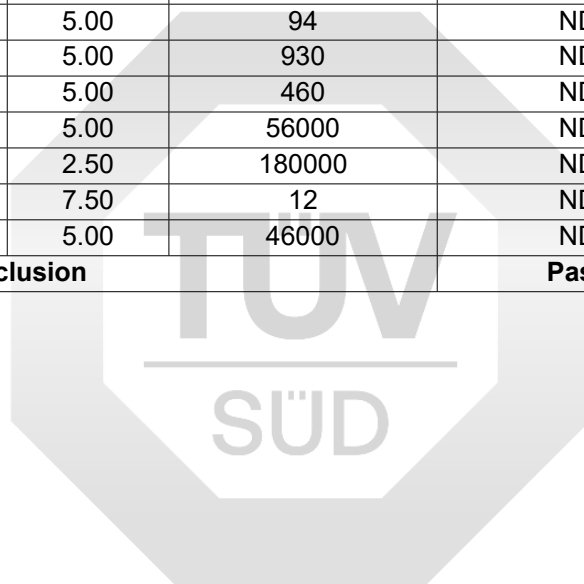


Test Report

No.: 70.452.23.12149.01

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Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			018	019
Soluble Aluminum	5.00	28130	6.40	8.40
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.101	0.720
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



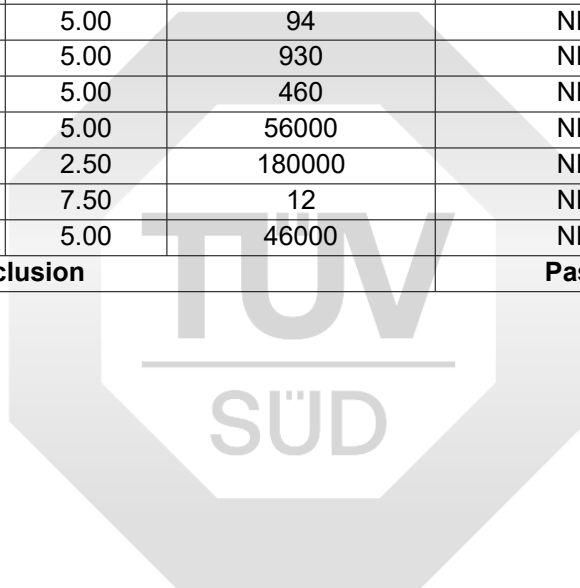


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Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			020	021
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.060	0.050
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



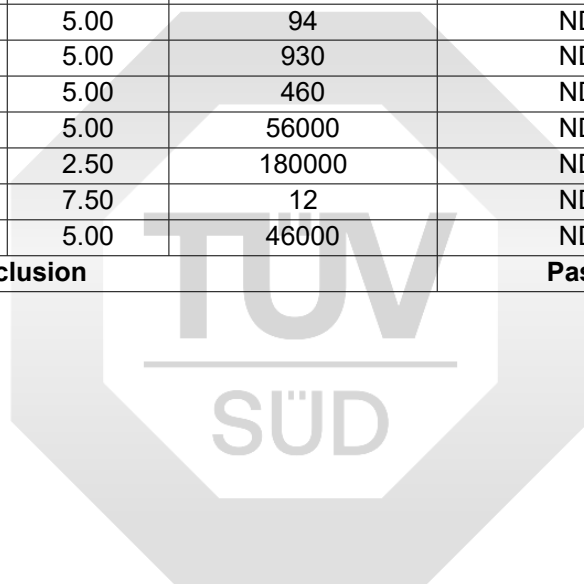


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Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			022	023
Soluble Aluminum	5.00	28130	ND	28.6
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	0.252
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



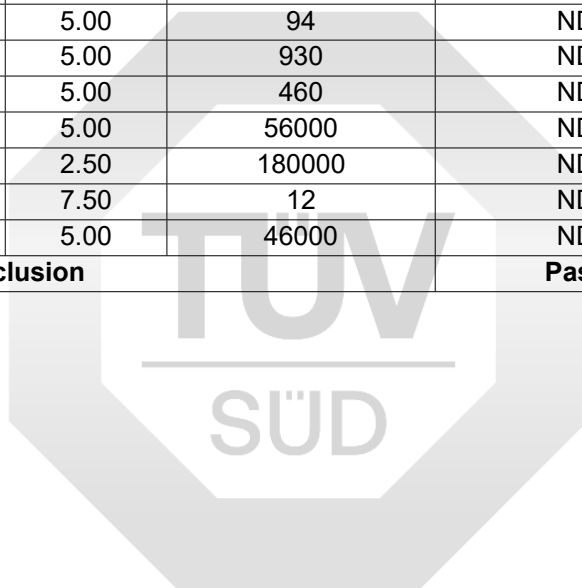


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Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			024	025
Soluble Aluminum	5.00	28130	9.40	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.300	0.100
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



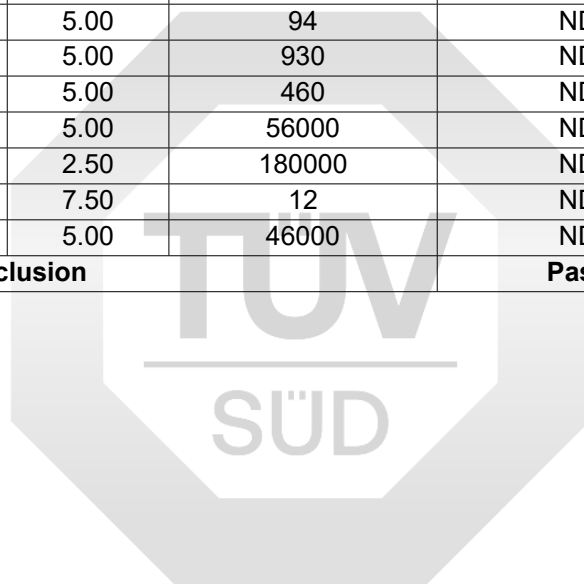


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			026	027
Soluble Aluminum	5.00	28130	7.30	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.150	0.150
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



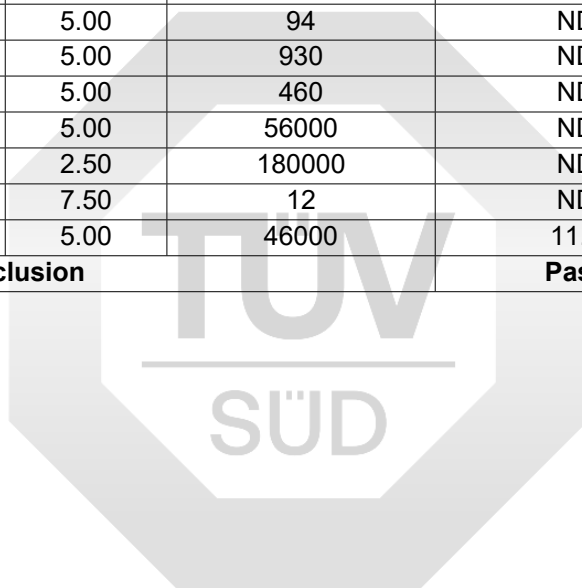


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			028	029
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	0.050
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	11.4	14.7
Conclusion			Pass	Pass



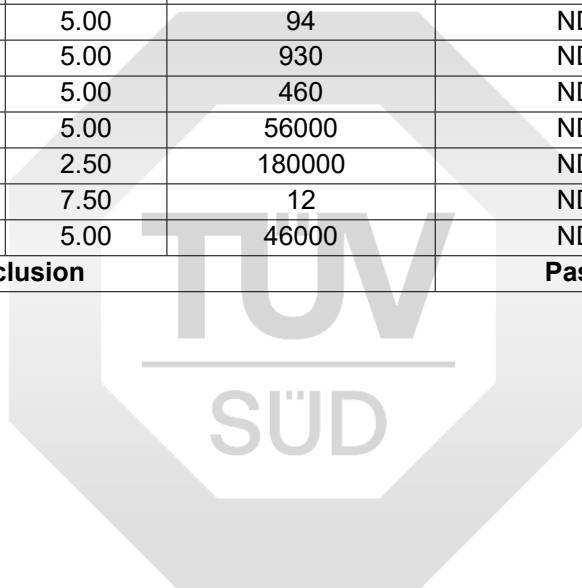


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			030	031
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	0.050
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



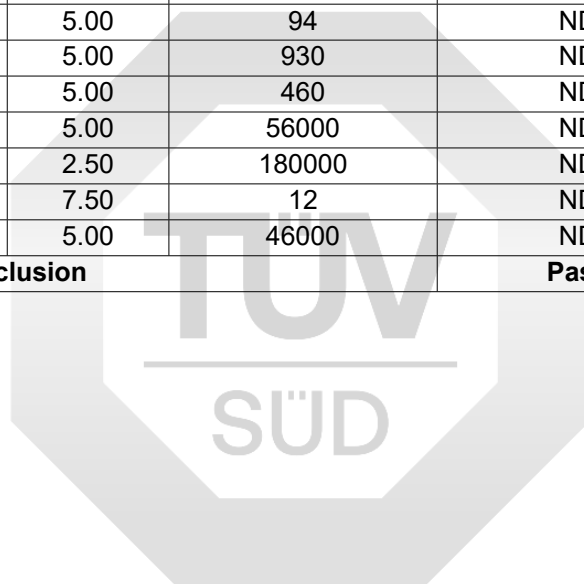


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			032	033
Soluble Aluminum	5.00	28130	9.45	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.100	0.050
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



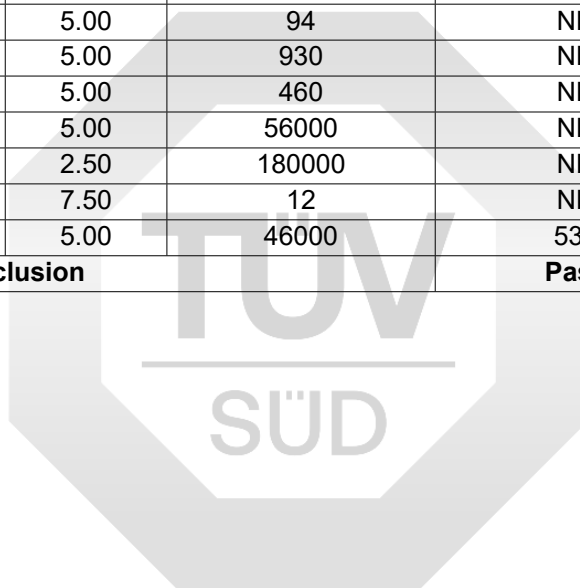


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			034	035
Soluble Aluminum	5.00	28130	17.7	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.400	0.100
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	534	729
Conclusion			Pass	Pass



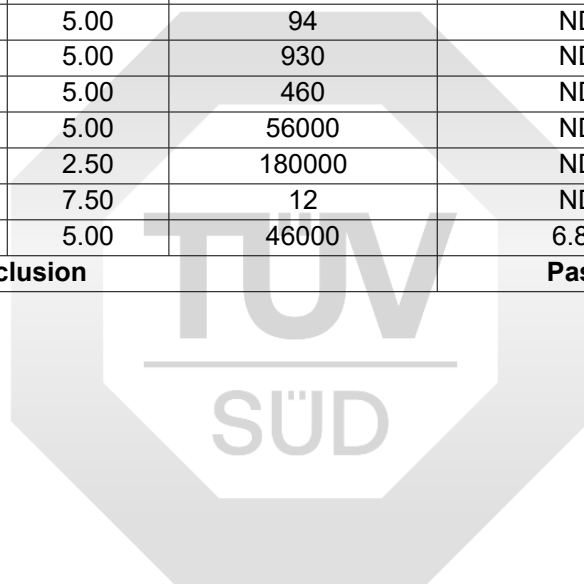


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			036	037
Soluble Aluminum	5.00	28130	ND	15.2
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	117
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.350	0.151
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	6.85	1060
Conclusion			Pass	Pass



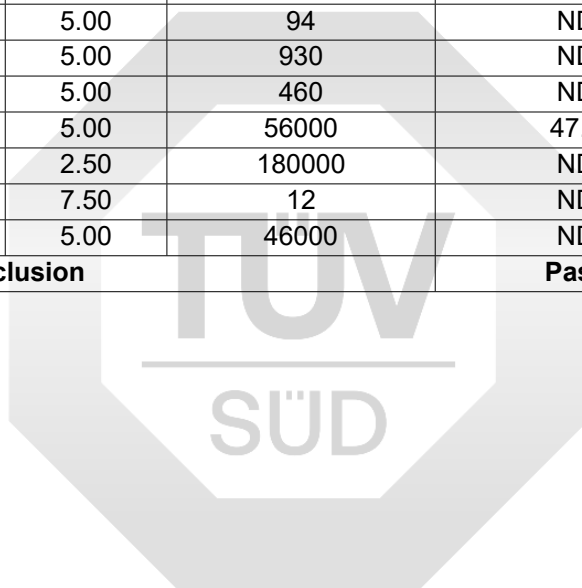


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			038	039
Soluble Aluminum	5.00	28130	121	106
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	7.70
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.750	0.950
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	47.8	42.5
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



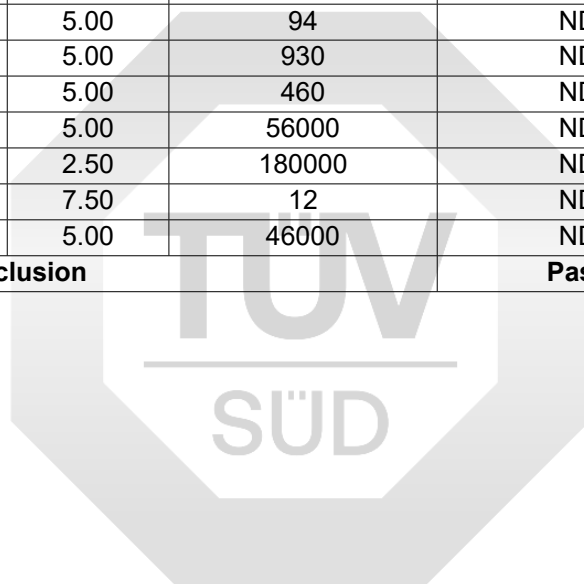


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			040	041
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.050	0.050
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



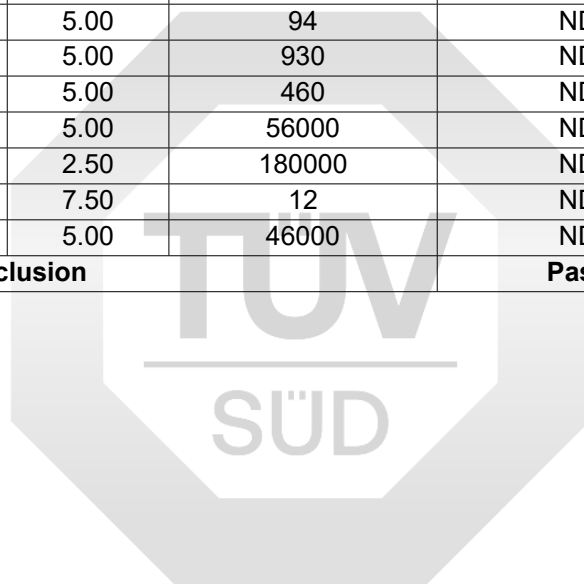


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			042	053
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.300	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



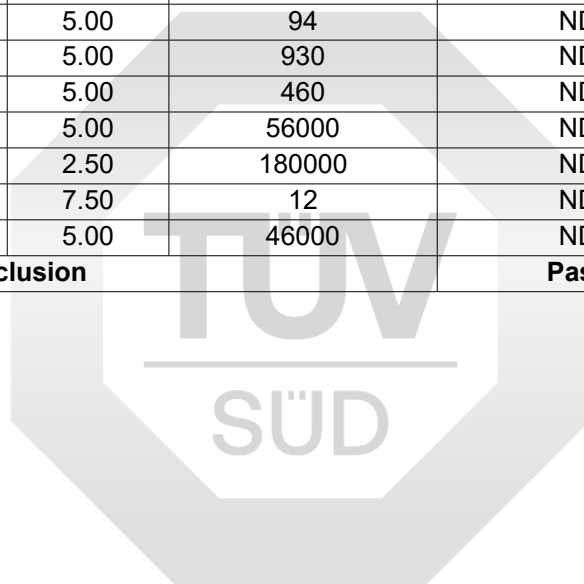


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			054	055
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



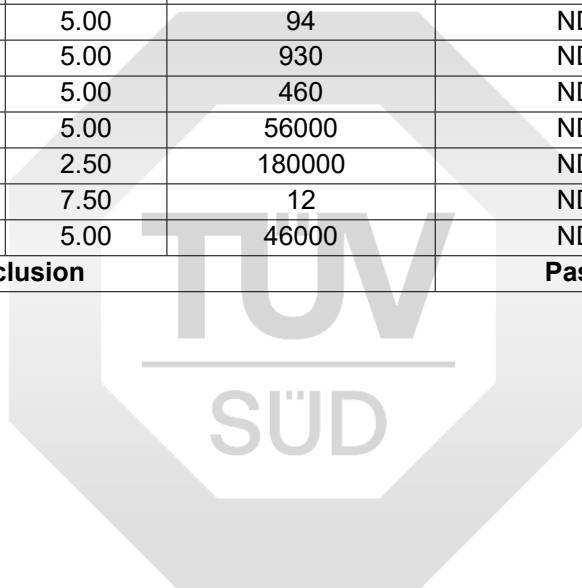


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			056	057
Soluble Aluminum	5.00	28130	6.50	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	5.25	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



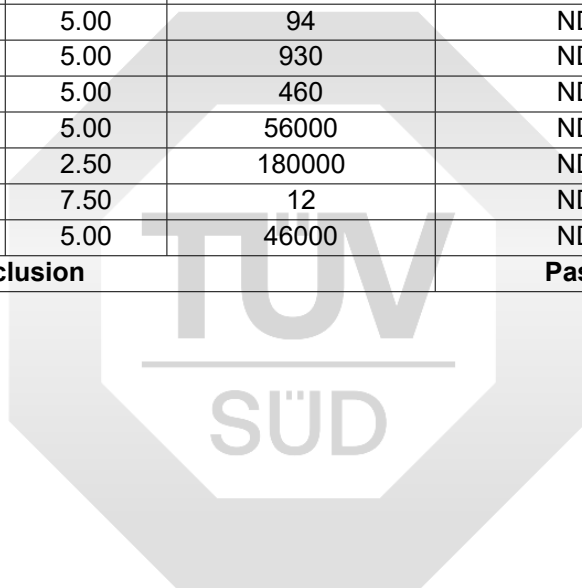


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			058	059
Soluble Aluminum	5.00	28130	ND	41.5
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	569
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	0.502
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	5.32
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	186
Soluble Tin	2.50	180000	ND	3.26
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	115
Conclusion			Pass	Pass



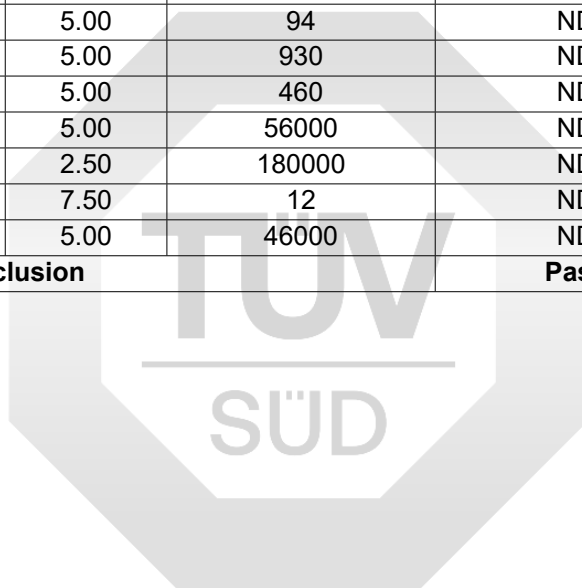


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			060	061
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	10.9	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



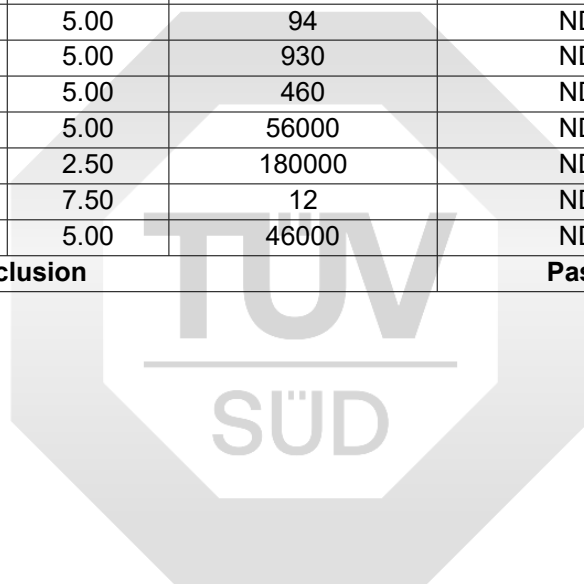


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			062	063
Soluble Aluminum	5.00	28130	ND	7.50
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass



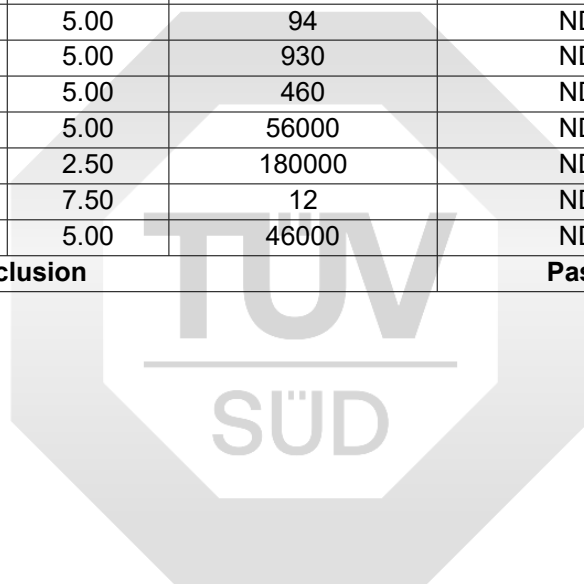


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			064	065
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass





Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

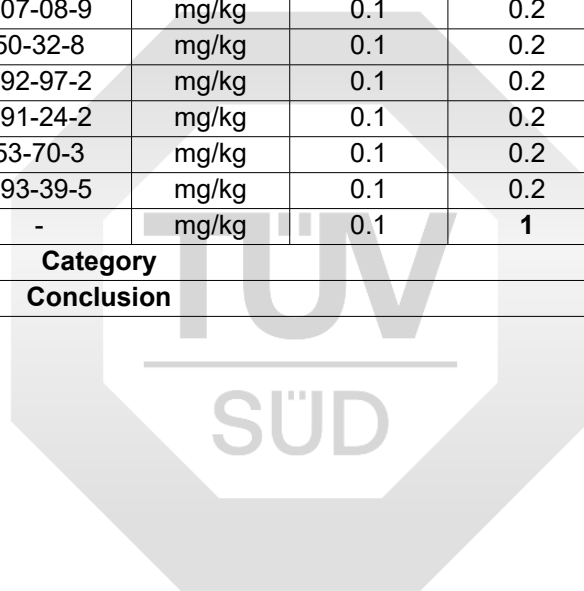
Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]
			066
Soluble Aluminum	5.00	28130	83.7
Soluble Antimony	5.00	560	ND
Soluble Arsenic	5.00	47	23.6
Soluble Barium	5.00	18750	ND
Soluble Boron	5.00	15000	ND
Soluble Cadmium	5.00	17	ND
Soluble Chromium III	0.04	460	1.18
Soluble Chromium VI	0.04	0.053	ND
Soluble Cobalt	5.00	130	ND
Soluble Copper	5.00	7700	ND
Soluble Lead	5.00	23	ND
Soluble Manganese	5.00	15000	ND
Soluble Mercury	5.00	94	ND
Soluble Nickel	5.00	930	ND
Soluble Selenium	5.00	460	ND
Soluble Strontium	5.00	56000	43.1
Soluble Tin	2.50	180000	ND
Organic Tin	7.50	12	ND
Soluble Zinc	5.00	46000	ND
Conclusion			Pass

Remark: 1. NA = With reference to EN 71-3:2019+A1:2021, test portions where less than 10mg of material available are not tested.
2. Mass of trace amount of sample 005 is 25.00 mg, sample 014 is 44.00 mg, sample 015 is 31.00 mg, sample 019 is 65.00 mg, sample 020 is 56.00 mg, sample 025 is 91.00 mg, sample 026 is 58.00 mg, sample 027 is 57.00 mg, sample 031 is 93.00 mg, sample 032 is 66.00 mg, sample 039 is 91.00 mg, sample 042 is 92.00 mg

2. Polycyclic Aromatic Hydrocarbons (15 PAHs)

Test with reference to AfPS GS 2019:01, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003	004
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category Conclusion					Category 1 Pass	Category 1 Pass





Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012	014
Naphthalene	91-20-3	mg/kg	0.1	1	ND	0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	0.1
Category					Category 1	Category 1
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					022	023
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category					Category 1	Category 1
Conclusion					Pass	Pass

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**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					028	029
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	0.4
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	0.3
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	0.7
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	0.7
Category					Category 1	Category 1
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					030	039
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category					Category 1	Category 1
Conclusion					Pass	Pass

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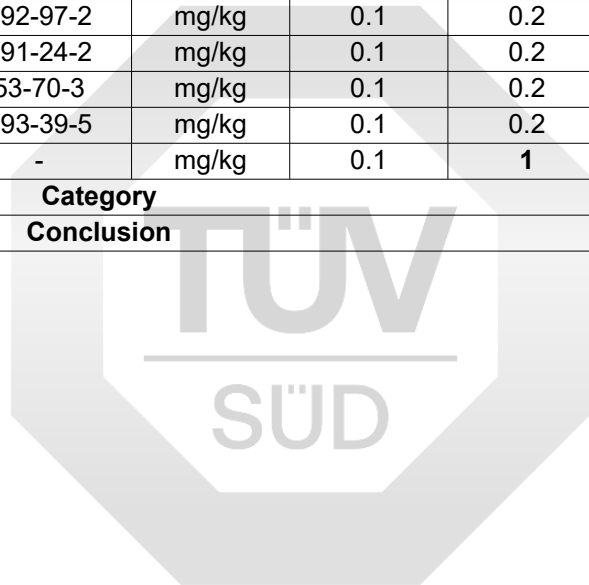
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Test Report

No.: 70.452.23.12149.01
Date: 2023-12-01



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					060	064
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category Conclusion					Category 1 Pass	Category 1 Pass





Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					005	006
Naphthalene	91-20-3	mg/kg	0.1	2	0.1	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	0.1	ND
Category					Category 2	Category 2
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007	008
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	ND
Category					Category 2	Category 2
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					011	013
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	0.1
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	0.1
Category					Category 2	Category 2
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					015	016
Naphthalene	91-20-3	mg/kg	0.1	2	ND	0.3
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	0.3
Category					Category 2	Category 2
Conclusion					Pass	Pass

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Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018	019
Naphthalene	91-20-3	mg/kg	0.1	2	0.1	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	0.1	ND
Category Conclusion					Category 2 Pass	Category 2 Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					020	021
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	ND
Category Conclusion					Category 2 Pass	Category 2 Pass

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Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					024	025
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	ND
Category Conclusion					Category 2 Pass	Category 2 Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					026	027
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	ND
Category Conclusion					Category 2 Pass	Category 2 Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					031	032
Naphthalene	91-20-3	mg/kg	0.1	2	ND	0.2
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	0.2
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	0.2
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	0.4
Category Conclusion					Category 2 Pass	Category 2 Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					033	034
Naphthalene	91-20-3	mg/kg	0.1	2	ND	0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	0.2
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	0.2
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	0.3
Category Conclusion					Category 2 Pass	Category 2 Pass

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Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					035	036
Naphthalene	91-20-3	mg/kg	0.1	2	0.1	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	0.1	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	0.1	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	0.2	ND
Category					Category 2	Category 2
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					037	038
Naphthalene	91-20-3	mg/kg	0.1	2	0.2	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	0.2	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	0.2	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	0.4	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	0.6	ND
Category					Category 2	Category 2
Conclusion					Pass	Pass

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Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					040	041
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	ND
Category Conclusion					Category 2 Pass	Category 2 Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					042	053
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	0.2
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	0.2
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	0.2
Category Conclusion					Category 2 Pass	Category 2 Pass

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Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					054	055
Naphthalene	91-20-3	mg/kg	0.1	2	ND	0.3
Phenanthrene	85-01-8	mg/kg	0.1	-	0.1	0.2
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	0.1
Pyrene	129-00-0	mg/kg	0.1	-	ND	0.2
Sum of 4 PAHs	-	mg/kg	0.1	5	0.1	0.5
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	0.1	0.8
Category					Category 2	Category 2
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					056	058
Naphthalene	91-20-3	mg/kg	0.1	2	ND	0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	0.4	0.1
Anthracene	120-12-7	mg/kg	0.1	-	0.2	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	0.2	ND
Pyrene	129-00-0	mg/kg	0.1	-	0.5	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	1.3	0.1
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	0.1	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	1.4	0.2
Category					Category 2	Category 2
Conclusion					Pass	Pass

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Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					059	061
Naphthalene	91-20-3	mg/kg	0.1	2	0.3	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	0.3	ND
Category Conclusion					Category 2 Pass	Category 2 Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					062	063
Naphthalene	91-20-3	mg/kg	0.1	2	ND	0.2
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	0.2
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	0.20
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	0.20
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	0.4
Category Conclusion					Category 2 Pass	Category 2 Pass

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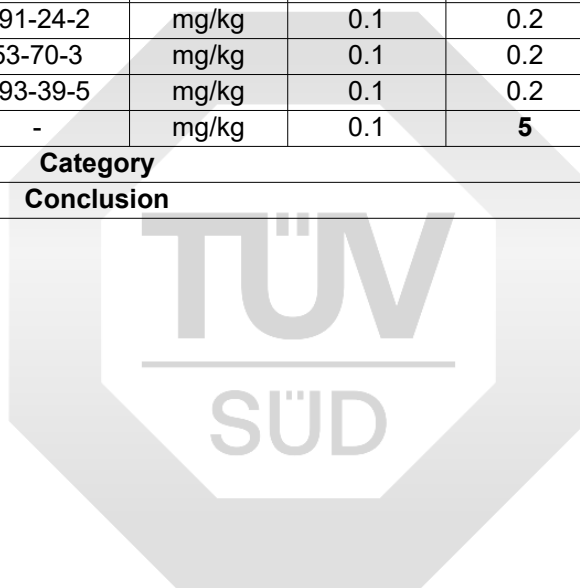


Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					065	066
Naphthalene	91-20-3	mg/kg	0.1	2	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	5	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	5	ND	ND
Category					Category 2	Category 2
Conclusion					Pass	Pass



Remark: 1. Limit according to AfPS GS 2019:01PAK :

Parameter	Category 1	Category 2		Category 3	
		Used by children (mg/kg)	Other consumer products (mg/kg)	Used by children (mg/kg)	Other consumer products (mg/kg)
	Materials intended to be taken into the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles intended for the use by children up to 3 years of age having long-term skin contact (more than 30s) within intended use	Materials that do not fall into category 1, with long-term skin contact (more than 30s) or repeated short-term skin contact within intended or foreseeable use		Materials that do neither fall into category 1 nor 2, with short-term skin contact (up to 30s) within foreseeable use	
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum < 1	Sum < 5	Sum < 10	Sum < 20	Sum < 50
Naphthalene	< 1	< 2		< 10	
Sum 15 PAH	< 1	< 5	< 10	< 20	< 50



3. Directive 2009/48/EC and Amendment Commission Directive (EU) 2021/903 Appendix C - Aniline Content

Test with reference to EN ISO 14362-1:2017,determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003+013	004+005+006
Aniline	62-53-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007+011+012	014
Aniline	62-53-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018+021+023	024+026+027
Aniline	62-53-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					028+032	034+035+037
Aniline	62-53-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					036+042	038+039
Aniline	62-53-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					060+061+062	063
Aniline	62-53-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					066	
Aniline	62-53-3	mg/kg	5.0	30	ND	
Conclusion					Pass	



4. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 & 52 - Phthalates Content
Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003+013	008+019+020
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					009+010+015	016
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Test Report

No.: 70.452.23.12149.01
Date: 2023-12-01



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					017	022+025+029
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					030+031+033	032+034
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	0.029
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	0.029
Conclusion					Pass	Pass

Test Report

No.: 70.452.23.12149.01
Date: 2023-12-01



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					035+037	038+039
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					040+041+044	045+052
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					046	047+048+049
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					050+051	053
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					054	056
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	0.022
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	0.022
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	0.009
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	0.009
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					057	058
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	0.023	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	0.007	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	0.030	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	0.007	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	0.007	ND
Conclusion					Pass	Pass

Test Report

No.: 70.452.23.12149.01
Date: 2023-12-01



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					059	063
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					064+065	066
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

5. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)

Test with reference to in AfPS GS 2019:01, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003	004
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					005	006
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007	008
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
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**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

					011	012
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					013	014
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					015	016
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018	019
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					020	021
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					022	023
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					024	025
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					026	027
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					028	029
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					030	031
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					032	033
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					034	035
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					036	037
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					038	039
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					040	041
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					042
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND
Conclusion					Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					053	054
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					055	056
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					057	058
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	0.35	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	0.22	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	0.47	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	0.37	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	0.24	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	0.17	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	0.34	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					059	060
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					061	062
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					063	064
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					065	066
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

6. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 43 - Azocolourants Content

Test with reference to EN ISO 14362-1:2017,determination by GC-MS/HPLC.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003+013	004+005+006
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007+011+012	014
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018+021+023	024+026+027
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					028+032	034+035+037
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					036+042	038+039
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					060+061+062	063
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND	ND
Conclusion					Pass	Pass

**Test Report****No.: 70.452.23.12149.01****Date: 2023-12-01**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					066
4-aminobiphenyl	92-67-1	mg/kg	5.0	30	ND
Benzidine	92-87-5	mg/kg	5.0	30	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5.0	30	ND
2-naphthylamine	91-59-8	mg/kg	5.0	30	ND
o-aminoazotoluene	97-56-3	mg/kg	5.0	30	ND
5-nitro-o-toluidine	99-55-8	mg/kg	5.0	30	ND
4-chloroaniline	106-47-8	mg/kg	5.0	30	ND
2,4-diaminoanisole	615-05-4	mg/kg	5.0	30	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5.0	30	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5.0	30	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5.0	30	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5.0	30	ND
4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5.0	30	ND
p-cresidine	120-71-8	mg/kg	5.0	30	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5.0	30	ND
4,4'-oxydianiline	101-80-4	mg/kg	5.0	30	ND
4,4'-thiodianiline	139-65-1	mg/kg	5.0	30	ND
o-toluidine	95-53-4	mg/kg	5.0	30	ND
2,4-toluenediamine	95-80-7	mg/kg	5.0	30	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5.0	30	ND
2-methoxyaniline	90-04-0	mg/kg	5.0	30	ND
2,4-xylidine	95-68-1	mg/kg	5.0	30	ND
2,6-xylidine	87-62-7	mg/kg	5.0	30	ND
4-aminoazobenzene	60-09-3	mg/kg	5.0	30	ND
Conclusion					Pass

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤ 30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) Banned AZO dyes in accordance to REACH regulation (EC) No. 1907/2006 and Amendment No. 552/2009 Annex XVII Item 43 (formerly known as 2002/61/EC)



Test Report

No.: 70.452.23.12149.01

Date: 2023-12-01

7. Colour Fastness to Saliva & Sweat DIN 53160-1:2010/DIN 53160-2:2010

Test Sample	003	004	005	006	007	011	Applicant's Requirement
Saliva Staining on Filter Paper	5	5	5	5	5	5	4-5
Sweat Staining on Filter Paper	5	5	5	5	5	5	4-5

Test Sample	012	013	014	016	018	Applicant's Requirement
Saliva Staining on Filter Paper	5	5	5	5	5	4-5
Sweat Staining on Filter Paper	5	5	5	5	5	4-5

Test Sample	020	021	023	024	026	Applicant's Requirement
Saliva Staining on Filter Paper	5	5	5	5	5	4-5
Sweat Staining on Filter Paper	5	5	5	5	5	4-5

Test Sample	027	028	032	034	035	Applicant's Requirement
Saliva Staining on Filter Paper	5	5	5	5	5	4-5
Sweat Staining on Filter Paper	5	5	5	5	5	4-5

Test Sample	036	037	038	039	042	Applicant's Requirement
Saliva Staining on Filter Paper	5	5	5	5	5	4-5
Sweat Staining on Filter Paper	5	5	5	5	5	4-5

Test Sample	008	019	022	025	031	033	040	Applicant's Requirement
Saliva Staining on Filter Paper	5	5	5	5	5	5	5	4-5
Sweat Staining on Filter Paper	5	5	5	5	5	5	5	4-5

Test Sample	060	061	062	063	064	065	066	053	Applicant's Requirement
Saliva Staining on Filter Paper	5	5	5	5	5	5	5	5	4-5
Sweat Staining on Filter Paper	5	5	5	5	5	5	5	5	4-5

Remarks: Grey Scale Rating Is Based on The 5-Step of 1 to 5, Where 1 Is Bad and 5 Is Good

-End of Test Report-