



we assist, advise and test

CTL [®] no	381050/1
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[Material]	Tattoo colour sample
[Colour]	XXX black
[Batch/Lot no]	-----

				passed
Azo-dyestuffs, Part 1a Investigation of aromatic amines with carcinogenic, mutagenic, reprotoxic and sensitising properties according to CoE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm; limit: as low as technically avoidable				not detectable
Biphenyl-4-arylamine	-	4-Methoxy-m-phenylenediamine	-	yes
Benzidine	-	4,4'-Methylenedianiline	-	
4-Chloro-o-toluidine	-	3,3'-Dichlorobenzidine	-	
2-Naphthylamine	-	3,3'-Dimethoxybenzidine	-	
o-Aminoazotoluene	-	3,3'-Dimethylbenzidine	-	
5-Nitro-o-toluidine	-	4,4'-Methylenedi-o-toluidine	-	
4-Chloroaniline	-	6-Methoxy-m-toluidine	-	
Azo-dyestuffs, Part 1b Investigation of carcinogens classified in categories 1, 2 and 3 by the European Commission and mentioned in the Council Directive 1967/548/EEC of 27 June 1967 according to CoE Resolution ResAP(2008)1 Methods acc. to § 64 LFGB 82.02-2,3,4,9 Detection limit: 1 ppm				
4,4'-Oxydianiline	-	2,4,5-Trimethylaniline	-	yes
4,4'-Thiodianiline	-	Para-phenylenediamine	-	
o-Toluidine	-	2,4-Xylidine	-	
Dyestuffs, Part 2 Acc. to CoE Resolution ResAP(2008)1 Methods: TLC-, HPLC-, GC/MS-analysis acc. to DIN 54231 Detection limit: 5 mg/L				not detectable
Acid Green 16	-	Disperse Blue 1	-	yes
Acid Red 26	-	Disperse Blue 106	-	
Acid Violet 17	-	Disperse Blue 124	-	
Acid Violet 49	-	Disperse Blue 3	-	
Acid Yellow 36	-	Disperse Blue 35	-	
Basic Blue 7	-	Disperse Orange 3	-	
Basic Green 1	-	Disperse Orange 37	-	
Basic Red 1	-	Disperse Red 1	-	
Basic Red 9	-	Disperse Red 17	-	
Basic Violet 1	-	Disperse Yellow 3	-	
Basic Violet 10	-	Disperse Yellow 9	-	
Basic Violet 3	-	Pigment Orange 5	-	
		Pigment Red 53	-	
		Pigment Violet 3	-	
		Pigment Violet 39	-	
		Solvent Blue 35	-	
		Solvent Orange 7	-	
		Solvent Red 24	-	
		Solvent Red 49	-	
		Solvent Violet 9	-	
		Solvent Yellow 1	-	
		Solvent Yellow 2	-	
		Solvent Yellow 3	-	

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			passed
Heavy metals, Part 3 Acc. to CoE Resolution ResAP(2008)1 Method: Prior, G. (2014). Tattoo Inks: Analysis, Pigments, Legislation. Berlin: epubli. CTL Method 2, p. 83.			
	Limit	Amount	
	Arsenic (As)	≤ 2 ppm	< 2 ppm
	Barium (Ba)	≤ 50 ppm	< 50 ppm
	Cadmium (Cd)	≤ 0.2 ppm	< 0.2 ppm
	Cobalt (Co)	≤ 25 ppm	< 25 ppm
	Chromium (Cr), VI	≤ 0.2 ppm	< 0.2 ppm
	Copper (Cu), soluble	≤ 25 ppm	< 25 ppm
	Mercury (Hg)	≤ 0.2 ppm	< 0.2 ppm
	Nickel (Ni)	As low as technically achievable	< 0.5 ppm
	Lead (Pb)	≤ 2 ppm	< 2 ppm
	Selenium (Se)	≤ 2 ppm	< 2 ppm
	Antimony (Sb)	≤ 2 ppm	< 2 ppm
	Tin (Sn)	≤ 50 ppm	< 50 ppm
	Zinc (Zn)	≤ 50 ppm	< 50 ppm
PAH and BaP, Part 4 Investigation of 16 compounds of Polycyclic hydrocarbons incl. Benzo-a-pyrene acc. to CoE Resolution ResAP(2008)1 Methods acc. to EPA, ZEK 2008-01 Detection limit: PAH 0.05 ppm as total, BaP 0.5 ppb Limit: PAH ≤ 0.5 ppm as total, BaP ≤ 5 ppb			
Naphthalene	-	Fluoranthene	-
Acenaphthylene	-	Pyrene	-
Acenaphthene	-	Benz(a)anthracene	-
Fluorene	-	Chrysene	-
Phenanthrene	-	Benzo(b)fluoranthene	-
Anthracene	-	Benzo(k)fluoranthene	-
		Dibenzo(a,h)anthracene	-
		Indo (1,2,3-cd)pyrene	-
		Benzo(g,h,i)perylene	-
		Benzo-a-pyrene (BaP)	-
		Total	0 ppm
Sterility (microbiological test), Part 5* Investigation of pseudomonads (King A + B) acc. to CoE Resolution ResAP(2008)1 Methods: Oxidase test Detection limit: 1.0 x 10 ¹ CFU/g			
			< 1.0 x 10 ¹ CFU/g
Result: passed			

Additional information:

Result of heavy metal aluminium, perspiration solution: < 1 ppm



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Test	Test method	Result	passed
Anaerobes sulfite-reducing sporulating bacteria*	acc. to ASU §64 LFGB L59.00-4	< 1.0 x 10 ¹ CFU/g	yes
Aerobes mesophilic sporulating bacteria*	acc. to ASU §64 LFGB L06.00-18	< 1.0 x 10 ¹ CFU/g	yes
Results of part 5: passed			