

全國公證檢驗股份有限公司有機紡織品檢測認可內容

一、檢測領域：有機紡織品產品技術品質

檢測項目	檢測標準	範圍
纖維成份	CNS 2339	0.1 to 100 %
耐乾摩擦色堅牢度	ISO 105 X12	1 to 5 級
耐濕摩擦色堅牢度	ISO 105 X12	1 to 5 級
耐酸性和鹼性汗色堅牢度	ISO 105 E04	1 to 5 級
耐日光色堅牢度	ISO 105 B02	1 to 5 級
縮率	ISO 6330	+30 to -30%
60°C時的耐水洗色堅牢度	ISO 105 C06	1 to 5 級
物理性安全要求	CNS 15291	依據CNS 15291之規定
動物纖維材料和混合材料在30°C洗滌後之洗牢度	ISO 105 C06	1 to 5 級

二、檢測領域：有機紡織品殘留物限量

檢測項目	檢測標準	範圍
偶氮染料	<p>偶氮染料(紡織品)：</p> <p>(1)All items test: CNS 15205-1 EN 14362-1</p> <p>(2)Determination of 4-Aminoazobenzene: §64 LFGB, B82.02-9</p> <p>偶氮染料(聚酯纖維)：</p> <p>(1)All items test: CNS 15205-2 EN 14362-2</p> <p>(2)Determination of 4-Aminoazobenzene: §64 LFGB B82.02-9</p>	<p>5 to 45 ppm</p> <p>(1)o-Toluidine (CAS No. 95-50-4)</p> <p>2,4-Xylidine (CAS No. 95-68-1)</p> <p>2,6-Xylidine (CAS No. 87-62-7)</p> <p>2-Methoxyaniline(o-Anisidine) (CAS No. 90-04-0)</p> <p>p-Chloroaniline (CAS No. 106-47-8)</p> <p>p-Cresidine (CAS No. 120-71-8)</p> <p>2,4,5-Trimethylaniline (CAS No. 137-17-7)</p> <p>4-Chloro-o-toluidine (CAS No. 95-69-2)</p> <p>2,4-Toluyldiamine (CAS No. 95-80-7)</p> <p>2,4-Diaminoanisole (CAS No. 615-05-4)</p> <p>2-Naphthylamine (CAS No. 91-59-8)</p> <p>4-Aminodiphenyl (CAS No. 92-67-1)</p> <p>4,4-oxydianiline (CAS No. 101-80-4)</p> <p>4,4-Diaminodiphenylmethane (CAS No. 101-77-9)</p> <p>Benzidine (CAS No. 92-87-5)</p> <p>3,3-Dimethyl-4,4,-diaminodiphenyl- methane (CAS No. 838-88-0)</p> <p>3,3-Dimethylbenzidine (CAS No. 119-93-7)</p>

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偶氮染料	偶氮染料(紡織品): (1)All items test: CNS 15205-1 EN 14362-1 (2)Determination of 4-Aminoazobenzene: §64 LFGB, B82.02-9 偶氮染料(聚酯纖維): (1)All items test: CNS 15205-2 EN 14362-2 (2)Determination of 4-Aminoazobenzene: §64 LFGB B82.02-9	<接續上頁> 4,4-Thiodianiline (CAS No. 139-65-1) 3,3-Dichlorobenzidine (CAS No. 91-94-1) 4,4-Methylenebis(2-chloroaniline) (CAS No. 101-14-4) 3,3-Dimethoxybenzidine (CAS No. 119-90-4) 4-Aminoazobenzene (CAS No. 60-09-3) o-aminoazotoluene (CAS No. 97-56-3) 2-amino-4-nitrotoluene (CAS No. 99-55-8) (2)4-Aminoazobenzene (CAS No. 60-09-3)
分散染料 (過敏或致癌)	DIN 54231	2 to 500 mg/kg Blue 1 Blue 3 Blue 7 Blue 26 Blue 35 Blue 102 Blue 106 Blue 124 Orange 1 Orange 3 Orange 37 Orange 76 Red 1 Red 11 Red 17 Yellow 1 Yellow 3 Yellow 9 Yellow39 Yellow49

檢測項目	檢測標準	範圍
游離甲醛	CNS 12943、ISO 14184-1	5 to 500 mg/kg
pH值	EN 1413	2 to 13
重金屬洗出液	實驗室自訂測試方法 (Eco-textile) 文件編號：SC17-CHI652C	砷(As) 0.025 to 600 mg/kg 鉛(Pb) 0.02 to 700 mg/kg 鎘(Cd) 0.01 to 100 mg/kg 鉻(Cr) 0.1 to 400 mg/kg 汞(Hg) 0.01 to 100 mg/kg 鈷(Co) 0.1 to 600 mg/kg 銅(Cu) 1 to 200 mg/kg 鎳(Ni) 0.1 to 600 mg/kg 六價鉻 (Cr-VI) 0.5 to 100 mg/kg
12歲以下兒童用 紡織品含鉛量	CNS 4797-2	1 to 700 mg/kg
有機錫化合物	NIEA T504.3、DIN 38407-13	0.025 to 500 mg/kg TBT TPhT
鄰苯二甲酸鹽 (DINP、DNOP、 DEHP、DIDP、 BBP、DIBP)	ASTM D3421	DNOP、DEHP、BBP、DIBP： 10 to 700000 mg/kg DINP、DIDP： 50 to 700000 mg/kg

檢測項目	檢測標準	範圍
多環芳香碳氫化合物 (PAHS)	ZEK 01.2-08	0.1 to 1000 mg/kg Naphthalene (CAS No. 91-20-3) Acenaphthylene (CAS No. 208-96-8) Acenaphthene (CAS No. 83-32-9) Fluorene (CAS No. 86-73-7) Phenanthrene (CAS No. 85-1-8) Anthracene (CAS No. 120-12-7) Fluoranthene (CAS No. 206-44-0) Pyrene (CAS No. 129-00-0) Chrysene (CAS No. 218-01-9) Benzo[a]anthracene (CAS No. 56-55-3) Benzo[c]phenanthrene (CAS No. 195-19-7) Benzo[b]fluoranthene (CAS No. 205-99-2) Benzo[j]fluoranthene (CAS No. 205-82-3) Benzo[k]fluoranthene (CAS No. 207-08-9) Benzo[a]pyrene (CAS No. 50-32-8) Benzo[e]pyrene (CAS No. 192-97-2) Dibenzo[a,h]anthracene (CAS No. 53-70-3) Indeno[1,2,3-c,d]pyrene (CAS No. 193-39-5) Benzo[g,h,i]perylene (CAS No. 191-24-2) Benzo[a,h]pyrene (CAS No. 189-64-0) Benzo[a,i]pyrene (CAS No. 189-55-9) Benzo[a,l]pyrene (CAS No. 191-30-0) 3-Methylcholanthracene (CAS No. 56-49-5)

三、檢測領域：其它材料和配件的殘留物限量

檢測項目	檢測標準	範圍
偶氮染料	<p>偶氮染料(紡織品、油墨、顏料)：</p> <p>(1)All items test: CNS 15205-1 EN 14362-1</p> <p>(2)Determination of 4-Aminoazobenzene: §64 LFGB, B82.02-9</p> <p>偶氮染料(聚酯纖維)：</p> <p>(1)All items test: CNS 15205-2 EN 14362-2</p> <p>(2)Determination of 4-Aminoazobenzene: §64 LFGB B82.02-9</p>	<p>紡織品、油墨、顏料、聚酯纖維材料及含該等材料之配件</p> <p>5 to 45 ppm</p> <p>(1)o-Toluidine (CAS No. 95-50-4)</p> <p>2,4-Xylidine (CAS No. 95-68-1)</p> <p>2,6-Xylidine (CAS No. 87-62-7)</p> <p>2-Methoxyaniline(o-Anisidine) (CAS No. 90-04-0)</p> <p>p-Chloroaniline (CAS No. 106-47-8)</p> <p>p-Cresidine (CAS No. 120-71-8)</p> <p>2,4,5-Trimethylaniline (CAS No. 137-17-7)</p> <p>4-Chloro-o-toluidine (CAS No. 95-69-2)</p> <p>2,4-Toluylendiamine (CAS No. 95-80-7)</p> <p>2,4-Diaminoanisole (CAS No. 615-05-4)</p> <p>2-Naphthylamine (CAS No. 91-59-8)</p> <p>4-Aminodiphenyl (CAS No. 92-67-1)</p> <p>4,4-oxydianiline (CAS No. 101-80-4)</p> <p>4,4-Diaminodiphenylmethane (CAS No. 101-77-9)</p> <p>Benzidine (CAS No. 92-87-5)</p> <p>3,3-Dimethyl-4,4,-diaminodiphenylmethane (CAS No. 838-88-0)</p> <p>3,3-Dimethylbenzidine (CAS No. 119-93-7)</p>

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偶氮染料	偶氮染料(紡織品、油墨、顏料): (1)All items test: CNS 15205-1 EN 14362-1 (2)Determination of 4-Aminoazobenzene: §64 LFGB, B82.02-9 偶氮染料(聚酯纖維): (1)All items test: CNS 15205-2 EN 14362-2 (2)Determination of 4-Aminoazobenzene: §64 LFGB B82.02-9	<接續上頁> 4,4-Thiodianiline (CAS No.139-65-1) 3,3-Dichlorobenzidine (CAS No.91-94-1) 4,4-Methylenebis(2-chloroaniline) (CAS No.101-14-4) 3,3-Dimethoxybenzidine (CAS No.119-90-4) 4-Aminoazobenzene (CAS No.60-09-3) o-aminoazotoluene (CAS No.97-56-3) 2-amino-4-nitrotoluene (CAS No.99-55-8) (2)4-Aminoazobenzene (CAS No.60-09-3)
分散染料 (過敏或致癌)	DIN 54231	紡織品配件 2 to 500 mg/kg Blue 1 Blue 3 Blue 7 Blue 26 Blue 35 Blue 102 Blue 106 Blue 124 Orange 1 Orange 3 Orange 37 Orange 76 Red 1 Red 11 Red 17 Yellow 1 Yellow 3 Yellow 9 Yellow 39 Yellow 49

檢測項目	檢測標準	範圍
游離甲醛和其它短鏈醛類	CNS 12943、ISO 14184-1	紡織品配件 游離甲醛 5 to 500 mg/kg
pH值	EN 1413 EN 1413	紡織品配件 2 to 13
重金屬洗出液	實驗室自訂測試方法 (Eco-textile) 文件編號：SC17-CHI652C	紡織品配件 砷(As) 0.025 to 600 mg/kg 鉛(Pb) 0.02 to 700 mg/kg 鎘(Cd) 0.01 to 100 mg/kg 鉻(Cr) 0.1 to 400 mg/kg 汞(Hg) 0.01 to 100 mg/kg 鈷(Co) 0.1 to 600 mg/kg 銅(Cu) 1 to 200 mg/kg 鎳(Ni) 0.1 to 600 mg/kg 六價鉻 (Cr-VI) 0.5 to 100 mg/kg
鎳(Ni)釋放	EN 12472、EN 1811	高分子及複合材料之配件 0.05 to 600 $\mu\text{g}/\text{cm}^2/\text{week}$
鍍鎘配件	CNS 4797-2	紡織品鍍鎘配件 1 to 100 mg/kg
有機錫化合物	NIEA T504.3、DIN 38407-13	紡織品配件 0.025 to 500 mg/kg TBT TPhT
鄰苯二甲酸鹽 (DINP、DNOP、 DEHP、DIDP BBP、DIBP)	ASTM D3421	塗料、油墨、顏料、塑膠、橡膠材料及 含該等材料之配件 DNOP、DEHP、BBP、DIBP： 10 to 700000 mg/kg DINP、DIDP： 50 to 700000 mg/kg

檢測項目	檢測標準	範圍
多環芳香碳氫化合物 (PAHS)	ZEK 01.2-08	塗料、油墨、顏料、塑膠、橡膠材料及含該等材料之配件 0.1 to 1000 mg/kg Naphthalene (CAS No. 91-20-3) Acenaphthylene (CAS No. 208-96-8) Acenaphthene (CAS No. 83-32-9) Fluorene (CAS No. 86-73-7) Phenanthrene (CAS No. 85-1-8) Anthracene (CAS No. 120-12-7) Fluoranthene (CAS No. 206-44-0) Pyrene (CAS No. 129-00-0) Chrysene (CAS No. 218-01-9) Benzo[a]anthracene (CAS No. 56-55-3) Benzo[c]phenanthrene (CAS No. 195-19-7) Benzo[b]fluoranthene (CAS No. 205-99-2) Benzo[j]fluoranthene (CAS No. 205-82-3) Benzo[k]fluoranthene (CAS No. 207-08-9) Benzo[a]pyrene (CAS No. 50-32-8) Benzo[e]pyrene (CAS No. 192-97-2) Dibenzo[a, h]anthracene (CAS No. 53-70-3) Indeno[1, 2, 3-c, d]pyrene (CAS No. 193-39-5) Benzo[g, h, i] perylene (CAS No. 191-24-2) Benzo[a, h]pyrene (CAS No. 189-64-0) Benzo[a, i]pyrene (CAS No. 189-55-9) Benzo[a, l]pyrene (CAS No. 191-30-0) 3-Methylcholanthracene (CAS No. 56-49-5)