

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
TX 60154351

Blatt *Blatt*
0001

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*
0010--60433977 001

Längstens gültig bis *Latest expiration date*
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Tärnsjö Garveri AB
Garverivägen 6
SE-740 45 Tärnsjö
Sweden

Fertigungsstätte *Manufacturing Plant*

Tärnsjö Garveri AB
Garverivägen 6
SE-740 45 Tärnsjö
Sweden

Prüfzeichen *Test Mark*



Tested for
Harmful
Substances

www.tuv.com
ID 1111235355

Geprüft nach *Tested acc. to*

2 PFG S 0151/01.18 TÜV Rheinland PROOF Kriterienkatalog Schadstoffgeprüft für Textilien, Bekleidung,
Schuhe und Lederwaren (Nicht PSA)

Zertifiziertes Produkt (Geräteidentifikation)

Certified Product (Product Identification)

Leather

Tärnsjö leather:

9366; 29204; 29208; 29203; 9346; 9215; 8697; 8678; 9902;
8685; 8716; 8420; 8955; 29209; 9315; 29200; 29201; 9305;
9020; 9101; 8800; 8680; 8175; 8810; 8690; 9901; 9903;
8870; 8205; 8540; 8689; 8211; 9638; 9666; 8666; 9460;
9266; 9204; 9013; 9208; 9010; 9209; 9115; 9200; 9004;
9203; 9012; 9146; 8846; 9201; 9308; 9110; 9018; 9210;
9300; 9301; 9303; 9701; 9100; 88002; 8100; 8805; 86972;
86802; 86782; 8679; 8178; 81752; 8825; 8822; 8695

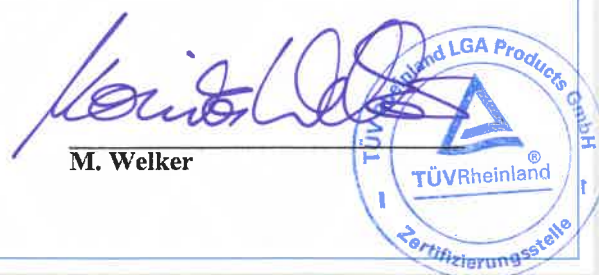
This certificate is based on our Testing and Certification Regulation.

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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Fax: +49 221 806-3935 http://www.tuv.com/safety



M. Welker

Ausstellungsdatum *Date of Issue* : 19.01.2021 (day/mo/yr)

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28.12.2020

Report No. 0003344521/30 AZ 396387

Test item: 13 samples of leather
Detailed list see next page

Condition at delivery: No claim

Date of delivery: 09.12.2020

Place of testing: Cologne

Test period: 09.12.2020 to 28.12.2020

Test scope: Test of all relevant parameters according to

Test specification: TÜV Rheinland PROOF Criteria Catalogue Tested for harmful substances,
2 PfG S 0151 - Shoes and Leather Goods, 01/2018

Test result: Pass - According to the kind and extent of tests performed the test items meet the requirements of the test specification.

tested by: 28.12.2020

authorized by: 28.12.2020

X 

Sachverständige(r)/Expert
Signiert von: Bernd Schiffarth

X 

Sachverständige(r)/Expert
Signiert von: Gunther Bier

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Test item: 13 samples of leather

Detailed list:

- 1) Article No.: 9366
- 2) Article No.: 29204
- 3) Article No.: 29208
- 4) Article No.: 29203
- 5) Article No.: 9346
- 6) Article No.: 9215
- 7) Article No.: 8697
- 8) Article No.: 8678
- 9) Article No.: 9902
- 10) Article No.: 8685
- 11) Article No.: 8716
- 12) Article No.: 8420
- 13) Article No.: 8955

Summary of results - Parameter

Test parameter	Result	Sample No.
Alkylphenoxyethoxylates	pass	
Alkylphenols	pass	
Amines of prohibited azo colorants, leather	pass	
Chloroparaffins	pass	
Chlorophenols	pass	
Chromium(VI) after ageing	pass	
Dimethylfumarate	pass	
Formaldehyde, leather	pass	
Odour	pass	
Perfluorinated compounds	pass	
Preservatives	pass	
Soluble heavy metals/ Soluble mineral tanning agents	pass	
Rubbing fastness, leather alkaline	pass	

List of materials

Article	Article name
1	9366
2	29204
3	29208
4	29203
5	9346
6	9215
7	8697
8	8678
9	9902
10	8685
11	8716
12	8420
13	8955

Mat.No.	Article	Component	Material	Colour
001	1	single material	leather	brown
002	2	single material	leather	black
003	3	single material	leather	brown, dark
004	8	single material	leather	green, dark
005	7	single material	leather	brown
006	11	single material	leather	black
007	15	single material	leather	brown
008	17	single material	leather	brown, dark
009	22	single material	leather	brown, dark
010	25	single material	leather	brown
011	26	single material	leather	red
012	30	single material	leather	green
013	32	single material	leather	brown

Results

Alkylphenoethoxylates

Sample composition	Mat. 001				
Sample No.	396387-002				
Unit	mg/kg				
Alkylphenoethoxylates					
Nonylphenoethoxylates	<20				
Octylphenoethoxylates	<20				

Alkylphenols

Sample composition	Mat. 003				
Sample No.	396387-001				
Unit	mg/kg				
Alkylphenols					
Nonylphenol	<5				
4-n-Octylphenol	<5				
4-tert-Octylphenol	<5				

Amines of prohibited azo colorants, leather

Sample composition	Mat. 002				
Sample No.	396387-003				
Unit	mg/kg				
Azo (22 amine + xylidine)					
4-Aminobiphenyl	<5				
Benzidine	<5				
4-Chloro-o-toluidine	<5				
2-Naphthylamine	<5				
4-Chloraniline	<5				
4-Methoxy-m-phenyldiamine	<5				
4,4'-Diaminodiphenylmethane	<5				
3,3'-Dichlorobenzidine	<5				
3,3'-Dimethoxybenzidine	<5				
3,3'-Dimethylbenzidine	<5				
4,4'-Methylene-di-o-toluidine	<5				
p-Cresidine	<5				
4,4'-Methylen-bis-(2-chloroaniline)	<5				
4,4'-Oxydianiline	<5				
4,4'-Thiodianiline	<5				
o-Toluidine/o-Aminoazotoluene	<5				
2,4-Toluyldiamin/5-Nitro-o-toluidine	<5				
2,4,5-Trimethylaniline	<5				
o-Anisidine	<5				
2,4/2,6-Xylidine	<5				
4-Aminoazobenzene	pre.fail				

Limit value 20 mg/kg

Amines of prohibited azo colorants, 4-aminoazobenzene leather

Sample composition	Mat. 002				
Sample No.	396387-003.1				
Unit	mg/kg				
Follow-up examination azo dyes					
4-Aminoazobenzene	<5				

Limit value 20 mg/kg

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Chloroparaffins

Sample composition	Mat. 006				
Sample No.	396387-011				
Unit	mg/kg				
Chlorinated paraffins C10-C13	<50				

Limit value 500 mg/kg

Chlorophenols

Sample composition	Mat. 008				
Sample No.	396387-006				
Unit	mg/kg				
Chlorophenols					
Pentachlorophenol	<0,1				
2,3,4-Trichlorophenol	<0,1				
2,3,5-Trichlorophenol	<0,1				
2,3,6-Trichlorophenol	<0,1				
2,4,5-Trichlorophenol	<0,1				
2,4,6-Trichlorophenol	<0,1				
3,4,5-Trichlorophenol	<0,1				
2,3,4,5-Tetrachlorophenol	<0,1				
2,3,4,6-Tetrachlorophenol	<0,1				
2,3,5,6-Tetrachlorophenol	<0,1				

Limit values:
0.5 / 1 mg/kg (each)
DiCP: 1 mg/kg (each)
MCP: 2 mg/kg (each)

Chromium(VI) after ageing

Sample composition	Mat. 010				
Sample No.	396387-008				
Unit	mg/kg				
Chromium(VI) after artificial ageing	<3				

Limit value: 3 mg/kg

Dimethylfumarate

Sample composition	Mat. 004				
Sample No.	396387-004				
Unit	mg/kg				
Dimethylfumarate	<0,05				

Limit value 0,1 mg/kg

Formaldehyde, leather HPLC method

Sample composition	Mat. 007				
Sample No.	396387-005				
Unit	mg/kg				
Formaldehyde	<10				

Odour

Sample composition	Mat. 009				
Sample No.	396387-007				
Unit	Note				
Odour, simple	1-2				

Limit value mark 2-3

Perfluorinated compounds

Sample composition		Mat. 005		
Sample No.	CAS-Nr.	396387-013		
Unit		µg/m ²		
Perfluorinated compounds		x		
PFOA	376-06-7	<1,0		
PFOS	375-73-5/5993 3-66-3	<1,0		
H2PFDA		<1,0		
PFOSA*	754-91-6	<1,0		
EtFOSA	4151-50-2	<1,0		
EtFOSE	24448-09-7	<1,0		
MeFOSA	31506-32-8	<1,0		
MeFOSE	24448-09-7	<1,0		
Total 7 PFC		<1,0		

Sample composition		Mat. 005		
Sample No.	CAS-Nr.	396387-012		
Unit		mg/kg		
Perfluorinated compounds		x		
PFBA	375-22-4	<0,05		
PFPeA	355-46-4	<0,05		
PFHxA	2058-94-8	<0,05		
PFHpA	375-95-1	<0,05		
PFNA	72629-94-8	<0,05		
PFDA	307-24-4	<0,05		
PFBS	2706-90-3	<0,05		
PFUnA	335-77-3	<0,05		
PFDoA	375-85-9	<0,05		
PFTeA	375-92-8	<0,05		
PF3.7-DMOA	172155-07-6	<0,05		
H4PFUnA	34598-33-9	<0,05		
6:2 FTS	27619-97-2	<0,05		
HPFHpA	1546-95-8	<0,05		
PFHxS	355-46-4	<0,05		
PFTTrA	1763-23-1	<0,05		
PFHpS	335-76-2	<0,05		
PFDS	335-67-1	<0,05		
4:2 FTOH	2043-47-2	<0,5		
6:2 FTOH	647-42-7	<0,5		
8:2 FTOH	678-39-7	<0,5		
10:2 FTOH	865-86-1	<0,5		
6:2 FTA	17527-29-6	<0,5		
8:2 FTA	27905-45-9	<0,5		
10:2 FTA	17741-60-5	<0,5		

Limit values:

PFOS, PFOSA, PFOSE, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE <1 µg/m² sum

PFOA <1 µg/m²

FTOHs & FTAs <0,5 mg/kg

Other PFCs <0,05 mg/kg

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Preservatives

Sample composition	Mat. 011			
Sample No.	396387-009			
Unit	mg/kg			
Preservatives				
n-Octylisothiazolinone (OIT)	<10			
2-Thiocyanomethylthiobenzoth. (TCMTB)	<10			
p-Chlor-m-Kresol (CMK)	37			
Orthophenylphenol	<10			

Limit values:

- 4-Chloro-3-methylphenol: <600 mg/kg
- N-Octylisothiazolinone: <250 mg/kg
- o-Phenylphenol: <1000 mg/kg
- 2-Thiocyanomethylthiobenzothiazol: <500 mg/kg

Soluble heavy metals/ Soluble mineral tanning agents

Sample composition	Mat. 012			
Sample No.	396387-010			
Unit	mg/kg			
Soluble heavy metals				
Antimony	<0,5			
Arsenic	<0,1			
Lead	<0,2			
Cadmium	<0,05			
Chromium	<0,5			
Cobalt	<0,5			
Copper	<0,5			
Nickel	<0,5			
Mercury	<0,01			

Limit values:

- Mercury (Hg): 0.02 mg/kg
- Nickel (Ni): 1.0 mg/kg
- Arsenic (As): 0.2 mg/kg
- Chromium (Cr): 200 mg/kg
- Copper (Cu): 50 mg/kg
- Zinc (Zn): 750 mg/kg
- Manganese (Mn): 90 mg/kg
- Antimony (Sb): 30 mg/kg
- Cobalt (Co): 4 mg/kg
- Cadmium: 0.1 mg/kg
- Lead: 0.2 mg/kg

Rubbing fastness, leather alkaline

Sample composition	Mat. 013			
Sample No.	396387-014			
Unit	Note			
Rubbing fastness, leather				
Humidity [%]	48,1			
Temperature [°C]	22,1			
Assessing staining, dry	5			
Assessing staining, wet	5			
Assessing staining, alkaline	5			

Summary of methods

Alkylphenoethoxylates	Standard: EN ISO 18254-1	Issue date: 01.04.16
Method description: Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO) - Part 1: Method using HPLC - MS		
Alkylphenols	Standard:	Issue date:
Method description: In-house method - Determination of alkylphenols after solvent extraction, quantification by GC-MS		
Notes: Quantification equates the DIN EN ISO 18857-1.		
Amines of prohibited azo colorants, leather	Standard: DIN EN ISO 17234-1	Issue date: 01.07.15
Method description: According to: Leather - Chemical tests for the determination of certain azo colorants in dyed leather - Part 1: Determination of certain aromatic amines derived from azo colorants		
Amines of prohibited azo colorants, 4-aminoazobenzene leather	Standard: DIN EN ISO 17234-2	Issue date: 01.06.11
Method description: Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 2: Determination of 4-aminoazobenzene		
Chloroparaffins	Standard: EN ISO 18219	Issue date: 01.10.15
Method description: Leather - according to EN ISO 18219:2015 and CADS method; quantification based on technical mixture with chlorination degree 59% for SCCP and 55% for MCCP		
Chlorophenols	Standard:	Issue date:
Method description: In-house method - Determination of chlorphenols after alkaline extraction and derivatisation. Quantification by GC-MS		
Notes: Quantification equates the DIN EN ISO 17070.		
Chromium(VI) after ageing	Standard: MS-0023989*	Issue date: 29.10.18
Method description: Chromium(VI) determination according to DIN EN ISO 17075-2, after aging for 24 hours, 80°C, <5% humidity in a static oven without ventilation		
Notes: * in-house working instruction		
Dimethylfumarate	Standard: DIN CEN ISO/TS 16186* DIN SPEC 53280	Issue date: 01.12.12
Method description: Footwear - critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylfumarate (DMFU) in footwear materials		
Notes: In a test of composite samples the limit values must be assessed under consideration of the number of components and a safety factor. A final statement of compliance may be made after testing the single materials.		
Formaldehyde, leather HPLC method	Standard: DIN EN ISO 17226-1	Issue date: 01.04.19
Method description: Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography		

Odour	Standard: SNV 195651	Issue date: 01.01.68
Method description: According to: Determination of the odour of equipment products (sense test), modified conditioning		
Notes: Evaluation scheme: 1 = odourless 2 = weak odour 3 = tolerable odour 4 = annoying odour 5 = intolerable odour		

Perfluorinated compounds	Standard: DIN SPEC 1038 * DIN CEN/TS 15968	Issue date: 01.11.10
Method description: Determination of perfluorinated compounds according to: Determination of extractable perfluorooctanesulfonate (PFOS) in coated and impregnated solid articles, liquids and fire fighting foams - Method for sampling, extraction and analysis by LC-qMS or LC-tandem/MS		

Preservatives	Standard: DIN EN ISO 13365	Issue date: 01.04.11
Method description: According to: Leather - Chemical tests - Determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography		

Soluble heavy metals/ Soluble mineral tanning agents	Standard: DIN EN ISO 17072-1	Issue date: 01.07.19
Method description: According to: Leather - Chemical determination of metal content - Part 1: Extractable metals		
Notes: The result refers to the fine milled material as delivered.		

Rubbing fastness, leather alkaline	Standard: DIN EN ISO 11640	Issue date: 01.11.18
Method description: Leather - Test for colour fastness - Colour fastness to cycles of to-and-fro rubbing, alkaline sweatsolution according to DIN EN ISO 105-E04		
Notes: Scale: 1 strong staining 5 no staining 20 rubbing cycles wet 50 rubbing cycles dry 20 rubbing cycles alkaline.		

Version directory

Version No.	Report No.	List of changes	Datum
1	0003344521/30 AZ 396387	First edition	28.12.2020

Only the version last shown in the version directory is valid. The previous version(s) shown in the table lose their validity immediately and must be returned or destroyed by the customer.

---End of report---

