

**The Appendix is an integral part of
Certificate of Accreditation No. 648/2019 of 03/12/2019**

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

AZL Otrokovice s.r.o.

Testing Laboratory for Leather and Textile Materials and Products

tř. Tomáše Bati 1724, 765 02 Otrokovice

The Laboratory has a flexible scope of accreditation permitted as detailed in the Annex.

Updated list of activities provided within the flexible scope of accreditation is available at the Laboratory.

The Laboratory provides expert opinions and interprets test results.

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1	Determination of volatile compounds by gravimetry	ČSN EN ISO 4684 ČSN EN ISO 287	Leather, genuine leather, fiberboard
2	Determination of chromic oxide – by iodometric titration	ČSN EN ISO 5398-1	Leather, genuine leather
3	Determination of total extractable chromium by spectrophotometry	ČSN 79 3873	Leather, genuine leather
4	Determination of sulphated ash content in leather and fur by gravimetry	ČSN EN ISO 4047	Leather, genuine leather
5	Determination of substances extractable with dichloromethane by gravimetry	ČSN EN ISO 4048	Leather, textile
6	Determination of extractable chromium(VI) by spectrophotometry	ČSN EN ISO 17075 - 1 ČSN EN ISO 20344, cl. 6.11	Leather, footwear
7	Determination of substances extractable with water by gravimetry	ČSN EN ISO 4098	Leather
8	Determination of pH value and difference figure of aqueous extracts of leather and fur	ČSN EN ISO 4045 ČSN EN ISO 3071	Leather, genuine leather, textile
9	Determination of protein fibres by hypochlorite method - material composition	Regulation (EU) No 1007/2011 of the European Parliament and of the Council, Method No. 2	Textile
10	Determination of free formaldehyde – acetylacetone method by spectrophotometry	ČSN EN ISO 14184-1 ČSN EN ISO 17226-2	Leather, textile, genuine leather
11	Determination of material structure by microscopic identification	ČSN EN ISO 17131	Leather, fiber leather, synthetic materials, coated textile fabrics and split leather
12	Determination of primary aromatic amines by spectrophotometry	ČSN 62 1156, cl. 3-7 and cl.18	Leather, textile, synthetic materials

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13	Determination of weight	ČSN 64 7011 ČSN EN ISO 536 ČSN EN ISO 9864 ČSN EN 29073-1 ČSN EN 12127 ČSN EN ISO 2286-2	Synthetic materials, paper and fiberboard, nonwoven textiles, geosynthetics
14	Determination of skewing and arching in textile fabrics and products	ČSN 80 0865	Textile
15	Determination of thickness	ČSN EN ISO 2589 ČSN 64 7010 ČSN EN ISO 9863-1 ČSN EN ISO 534 ČSN EN ISO 5084	Leather, genuine leather, synthetic materials, fiberboard, textile, geosynthetics
16	Determination of density (bulk density)	ČSN EN ISO 2420	Leather
17	Determination of number of threads per unit length	ČSN EN 1049-2 ČSN EN 14971	Textile
18	Determination of linear density of yarn	ČSN EN ISO 2060	Textile
19	Determination of twist in yarns	ČSN EN ISO 2061	Textile
20	Determination of tensile strength, percentage extension and elongation	ČSN EN ISO 3376 ČSN EN ISO 20344, čl. 6.4.1 ČSN EN ISO 13934-1 ČSN EN ISO 13934-2 ČSN EN ISO 2062 ČSN 64 7012 ČSN EN ISO 1924-2 ČSN EN 29073-3 ČSN EN ISO 1421 ČSN EN 13522 ČSN EN 12803	Leather, genuine leather, fiberboard, footwear, textile synthetic materials
21	Testing of tear strength	ČSN EN ISO 3377-1 ČSN EN ISO 13937-2 ČSN 64 7032 ČSN EN ISO 20344, cl.6.3 ČSN EN 388+A1, cl. 6.4 ČSN EN ISO 17696 ČSN EN 12771 ISO 34-1 ČSN EN ISO 4674-1, method B	Leather, textile, footwear, rubber, gloves, synthetic materials
22	Determination of tear strength – double edge tear	ČSN EN ISO 3377-2	Leather
23	Testing of stitch tear resistance	ČSN EN ISO 23910 ČSN EN 12782	Leather, footwear, footwear – insoles

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24	Testing of bond strength of layers	ČSN EN ISO 2411 ČSN 64 7030 PV 2034 ČSN EN ISO 17698 ČSN EN ISO 17708	Textile, synthetic materials, footwear, automotive textiles, footwear - uppers
25	Determination of seam strength	ČSN 79 7410 ČSN EN ISO 17698 ČSN EN ISO 13935-1 ČSN EN ISO 13935-2 ČSN EN ISO 13936-2	Leather, textile, footwear
26	Testing of expansion and strength of lasting (lastometer)	ČSN 79 3832 ČSN EN ISO 17693	Leather, footwear
27	Testing of water absorption under dynamic conditions (penetrometer)	ČSN EN ISO 5403-1 ČSN EN ISO 20344, cl. 6.13 ČSN EN ISO 17702	Leather, synthetic materials, footwear
28	Testing of water absorption of leather under static conditions	ČSN EN ISO 2417	Leather, synthetic materials
29	Testing of water vapour permeability	ČSN EN ISO 14268 ČSN EN ISO 20344, cl. 6.6, 6.8 ČSN EN 420+A1, cl. 6.3 ČSN EN 13515	Leather, footwear, gloves
30	Testing of water absorption and desorption, sorption capacity	ČSN EN ISO 20344, cl. 6.7 ČSN EN ISO 22649, A ČSN EN 420+A1, cl. 6.4 ČSN EN ISO 17229	Leather, footwear, gloves
31	Determination of area stability	ČSN 79 3845, method A ČSN EN 12800	Leather, footwear
32	Determination of colour fastness to cycles of to-and-fro rubbing – Veslic	ČSN EN ISO 11640 ČSN EN ISO 17700, method A ČSN 64 7031 ČSN EN ISO 20344, cl. 7.3 ČSN EN 12747	Leather, footwear, synthetic materials footwear – insoles
33	Determination of colour fastness to cycles of to-and-fro rubbing – Crockmeter	ČSN EN ISO 105-X12 ČSN EN ISO 20433	Leather, textile
34	Determination of colour fastness to perspiration	ČSN EN ISO 11641 ČSN EN ISO 105-E04	Leather, synthetic materials, textile
35	Determination of colour fastness to water	ČSN EN ISO 11642 ČSN EN ISO 105-E01 ČSN EN ISO 105-E07	Leather, synthetic materials, textile
36	Determination of colour fastness – colour fastness to migration	ČSN EN ISO 15701 ČSN EN ISO 17701	Leather, synthetic leather, footwear

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
37	Determination of colour fastness to machine washing	ČSN EN ISO 15702 ČSN EN ISO 15703 ČSN EN ISO 105-C06 ČSN EN ISO 105-C10	Leather, synthetic materials, textile
38	Testing of colour fastness to dry cleaning	ČSN EN ISO 11643 ČSN EN ISO 105-D01	Leather, synthetic materials, textile
39	Determination of dimensional change in washing and drying (by washing in an A-type washing machine and excluding drying in a drying machine and drying press)	ČSN EN ISO 6330 ČSN EN ISO 5077 ČSN EN ISO 3759 ČSN EN ISO 19954 ČSN EN ISO 15487	Textile
40	Testing of colour fastness – instrumental assessment	ČSN EN ISO 105-A04 ČSN EN ISO 105-A05	Leather, textile, synthetic materials
41	Testing of resistance to surface wetting	ČSN EN ISO 17231 ČSN EN ISO 4920 ČSN EN ISO 15700	Leather, clothing leather, textile
42	Testing of finish adhesion by tensometry	ČSN EN ISO 11644	Leather, synthetic materials
43	Determination of flex resistance of leather. Flexometer method	ČSN EN ISO 5402-1 ČSN 64 7029 ČSN EN ISO 17694 ČSN EN ISO 32100	Leather, synthetic materials, footwear
44	Reserved		
45	Determination of resistance to water penetration	ČSN EN 13073 ČSN EN ISO 20344, cl. 5.15.1	Footwear
46	Determination of cold crack temperature of surface coatings	ČSN EN ISO 17233	Leather, synthetic materials
47	Determination of leather softness	ČSN EN ISO 17235	Leather, synthetic materials
48	Determination of break/pipiness test	BS 5131/3,5	Leather
49	Determination of resistance to grain cracking and grain crack index	ČSN EN ISO 3378	Leather
50	Test of colour fastness to hot pressing	ČSN EN ISO 105-X11	Textile
51	Determination of thermal resistance	ISO 11645 ČSN EN ISO 17227 ČSN EN ISO 17228 ČSN EN ISO 17703	Leather, synthetic materials, footwear - uppers
52	Determination of the recovery from creasing of textiles	ČSN EN 22313	Textile

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53	Determination of delamination resistance	ČSN EN 12744	Footwear – insoles
54	Determination of flexing resistance of sole	ČSN EN ISO 20344, cl.8.4.2	Working footwear
55	Determination of the abrasion resistance of fabrics by the Martindale method	ČSN EN ISO 12947-1 ČSN EN ISO 12947-2 ČSN EN ISO 12947-3 ČSN EN ISO 12947-4 ČSN EN 388 cl. 6.1 ČSN EN ISO 20344, cl. 6.12 ČSN EN 530 ČSN EN 13520 ČSN EN ISO 5470-2	Leather, textiles, footwear, protective clothing, artificial leather, poromers
56	Determination of fabric propensity to surface fuzzing and to pilling	ČSN EN ISO 12945-2	Textile
57	Odor test	PV 3900	Textile, synthetic materials, leather
58	Measurement of area of leather	ČSN EN ISO 11646	Leather
59	Determination of puncture resistance	ČSN EN 388+A1, cl. 6.5 ČSN EN ISO 20344, cl. 5.8.2 ČSN EN 863	Leather, synthetic materials clothing, footwear
60	Determination of gripping ability	ČSN EN 420+A1, cl. 6.2	Gloves
61	Flammability test	ČSN ISO 3795 ČSN EN ISO 17074 TL 1010 DIN 75200 DBL 5307, cl. 5.1	Textiles leather automotive interior materials
62	Size designation and measurement of dimensions of products	ČSN EN 420+A1, cl. 6.1 ČSN EN 13402-1 ČSN EN ISO 3759 ČSN ISO 9407	Gloves clothing textiles footwear
63	Measurement of static and permanent elongation, determination of extension set	PV 3909 ČSN EN ISO 17236	Textiles, leather, synthetic materials
64	Determination of microbiological resistance by a soil burial test	ČSN EN 12225 ČSN EN 12226 ČSN EN ISO 9862	Geotextiles, geosynthetics,
65	Determination of volatile compounds by gravimetry	PN AZL 80 0074 (ČSN 80 0074)	Textile
66	Determination of weight	PN AZL 79 3810 (ČSN 79 3810)	Leather
67	Determination of weight	PN AZL 80 0863 (ČSN 80 0863)	Textile

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
68	Determination of twist in yarns	PN AZL 80 0701 (ČSN 80 0701)	Textile

¹ Asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

² If the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes).

Explanations:

PN AZL – AZL Company Standard

PV – Standard of Volkswagen AG – SEAT S.A. – ŠKODA automobilová a.s. – AUDI AG

TL – German Technical Standard

DBL – Standard of Mercedes Benz

BS – British Standard

DIN - German Standard

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1-68

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed.

The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.