



## Test Report

No. BR2205210 Rev. 0

Date: Barueri, 30 Jan 2023

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INDUSTRIA E COMERCIO DE COUROS DOWIDI LTDA.

AVENIDA IRINEU BECKER

501

DOIS IRMAOS, RS 93950000

BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: Camurça Hidrofugada HF 12/14; Camurça Hidrofugada HF 12/14 - 1. Br83Br282Br434HTBr354; Camurça Hidrofugada HF 12/14 - 2. B193Gr68BI210BI234Vi17; Camurça Hidrofugada HF 12/14 - 3. R239R1310r2Ye42Br97

SGS Order No. : 400000000910

Total of Sample : 12 SAMPLES

Colors : 1.Br83Br282Br434HTBr354/2.B193Gr68BI210BI234Vi17/3.R239R1310r2Ye42Br97

Mix : YES

Retest : E. NATURAL LEATHER

Sample composed of fibers of plant origin : NO

Sample contains PVC or recycled material in the composition : NO

water repellent material : YES

Sample covered with paints or varnishes : NO

Sample based on PU : NO

**The informations above was provided by or on behalf of the customer.**

Proposal Number : C&P PR22-295470 REV00

Sample Receiving Date : 06 Dec 2022

Test Performing Period : 07 Dec 2022 - 30 Jan 2023

Test Requested : Selected test(s) as requested by client.

Test Part Description : Please refer to next page(s).

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Technical Responsibility : Alessandra Shimizu - Laboratory Manager CRQ 04245592

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Sample Photo :



SGS authenticate the photo on original report only

Signed for and on behalf of  
SGS do Brasil Ltda.

Alessandra Shimizu  
Laboratory Manager CRQ 04245592

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Test Results :

### Test Part Description :

Item No.	SGS Sample ID	Description
1	BR2205210.001	Camurça Hidrofugada HF 12/14
2	BR2205210.002	Camurça Hidrofugada HF 12/14 - 1. Br83Br282Br434HTBr354
3	BR2205210.003	Camurça Hidrofugada HF 12/14 - 2. B193Gr68BI210BI234Vi17
4	BR2205210.004	Camurça Hidrofugada HF 12/14 - 3. R239R1310r2Ye42Br97

### Nonylphenol (NP) and Octylphenol (OP)

Test Method : Reference by ISO 18218-2:2015, analysis was performed by GC-MS.

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
Nonylphenol (NP)	25154-52-3	-	10.00	mg/kg	ND
Octylphenol (OP)	27193-28-8	-	10.00	mg/kg	ND
Sum of NP and OP (AP)		Max. 100.00	10.00	mg/kg	ND

### Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)

Test Method : Reference by ISO 18218-1:2015, analysis was performed by LC-MS.

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
Nonylphenol ethoxylates (NPEO)	9016-45-9	-	20.00	mg/kg	ND
Octylphenol ethoxylates (OPEO)	9002-93-1	-	20.00	mg/kg	ND
Sum of NPEO and OPEO (APEO)		Max. 100.00	-	mg/kg	ND

### AZO Dyes in Leather

Test Method : With reference to EN ISO 17234-1:2015 & EN ISO 17234-2:2011, analysis was performed with GC-MS/LC-MS.

Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
4-Aminobiphenyl	92-67-1	Max. 20.00	5.00	mg/kg	ND
Benzidine	92-87-5	Max. 20.00	5.00	mg/kg	ND
4-chloro-o-toluidine	95-69-2	Max. 20.00	5.00	mg/kg	ND
2-naphthylamine	91-59-8	Max. 20.00	5.00	mg/kg	ND
o-aminoazotoluene	97-56-3	Max. 20.00	5.00	mg/kg	ND
2-amino-4-nitrotoluene	99-55-8	Max. 20.00	5.00	mg/kg	ND
4-chloroaniline	106-47-8	Max. 20.00	5.00	mg/kg	ND
2,4-diamino-anisole	615-05-4	Max. 20.00	5.00	mg/kg	ND
4,4'-diaminodiphenylmethane	101-77-9	Max. 20.00	5.00	mg/kg	ND
3,3'-dichlorobenzidine	91-94-1	Max. 20.00	5.00	mg/kg	ND

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<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <u>001</u>
3,3'-dimethoxybenzidine	119-90-4	Max. 20.00	5.00	mg/kg	ND
3,3'-dimethylbenzidine	119-93-7	Max. 20.00	5.00	mg/kg	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	Max. 20.00	5.00	mg/kg	ND
p-cresidine	120-71-8	Max. 20.00	5.00	mg/kg	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	Max. 20.00	5.00	mg/kg	ND
4,4'-oxydianiline	101-80-4	Max. 20.00	5.00	mg/kg	ND
4,4'-thiodianiline	139-65-1	Max. 20.00	5.00	mg/kg	ND
o-toluidine	95-53-4	Max. 20.00	5.00	mg/kg	ND
2,4-Toluylendiamine	95-80-7	Max. 20.00	5.00	mg/kg	ND
2,4,5-trimethylaniline	137-17-7	Max. 20.00	5.00	mg/kg	ND
4-aminoazobenzene	60-09-3	Max. 20.00	5.00	mg/kg	ND
O-Anisidine	90-04-0	Max. 20.00	5.00	mg/kg	ND
2,4-Xylidine	95-68-1	Max. 20.00	5.00	mg/kg	ND
2,6-Xylidine	87-62-7	Max. 20.00	5.00	mg/kg	ND
4-Chloro-o-toluidinium Chloride	3165-93-3	Max. 20.00	5.00	mg/kg	ND
2-Naphthylammoniumacetate	553-00-4	Max. 20.00	5.00	mg/kg	ND
4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	Max. 20.00	5.00	mg/kg	ND

### Short Chained Chlorinated Paraffin (SCCP) and Medium Chained Chlorinated Paraffin (MCCP)

Test Method : With reference to DIN EN ISO 18219:2021; analysis was performed by LC/MS-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <u>001</u>
Short Chained Chlorinated Paraffin (SCCP)	85535-84-8	Max. 1000	100	mg/kg	ND
Medium Chained Chlorinated Paraffin (MCCP)	85535-85-9	Max. 1000	100	mg/kg	ND

### Formaldehyde

Test Method : With reference to ISO 17226-1:2019, analysis was performed by LC-DAD

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <u>001</u>
Formaldehyde	50-00-0	Max. 16.00	16.00	mg/kg	ND

### Formaldehyde

Test Method : With reference to ISO 17226-2:2019, analysis was performed by LC-DAD

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <u>001</u>
Formaldehyde	50-00-0	Max. 16.00	16.00	mg/kg	ND

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### Extractable Metals in Leather

Test Method : With reference to ISO 17072-1:2019, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>001</b>
Antimony (Sb)	Max. 30.00	3.00	mg/kg	ND
Arsenic (As)	Max. 0.20	0.10	mg/kg	ND
Barium (Ba)	Max. 1000.00	100.00	mg/kg	ND
Cadmium (Cd)	Max. 0.10	0.05	mg/kg	ND
Chromium (Cr)	Max. 60.00	0.50	mg/kg	45.38
Cobalt (Co)	Max. 1.00	0.50	mg/kg	ND
Copper (Cu)	Max. 25.00	5.00	mg/kg	ND
Lead (Pb)	Max. 0.20	0.10	mg/kg	ND
Mercury (Hg)	Max. 0.02	0.02	mg/kg	ND
Selenium (Se)	Max. 500.00	50.00	mg/kg	ND

### Total Heavy Metals

Test Method : EN ISO 17072-2:2019

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>001</b>
Arsenic (As)	7440-38-2	Max. 10.00	10.00	mg/kg	ND
Cadmium (Cd)	7440-43-9	Max. 40.00	5.00	mg/kg	ND
Mercury (Hg)	7439-97-6	Max. 0.50	0.10	mg/kg	ND

### Non-Metal Products

Test Method : With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>001</b>
Lead (Pb)	Max. 90.00	10.00	mg/kg	ND

### Hexavalent Chromium with aging

Test Method : Aging of the sample is required according to BS ISO 10195 (2018) Method A2 (24h, 80°C, max. 10%rH, usage of a non-ventilated oven) and EN ISO 17075:2017.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>002</b>
Hexavalent Chromium with aging	18540-29-9	Max. 3.000	0.625	mg/kg	1.280

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>003</b>
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<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>003</b>
Hexavalent Chromium with aging	18540-29-9	Max. 3.000	0.625	mg/kg	ND

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>004</b>
Hexavalent Chromium with aging	18540-29-9	Max. 3.000	0.625	mg/kg	ND

### Ortho-phenylphenol (OPP)

Test Method : DIN 50009:2021

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>001</b>
Ortho-phenylphenol (OPP)	90-43-7	Max. 1000.00	0.50	mg/kg	1.10

### Perfluorinated and Polyfluorinated Chemicals (PFCs)

Test Method : With reference to ISO 23702-1:2018. Analysis was conducted by LC-MS, LC-MS/MS and GC-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>001</b>
N-Ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	-	1	µg/m <sup>2</sup>	ND
Perfluorooctane Sulfonates (PFOS)	1763-23-1	-	1	µg/m <sup>2</sup>	ND
N-Methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	-	1	µg/m <sup>2</sup>	ND
2-(N-Ethylperfluoro-1-octanesulfonamido)- ethanol (EtFOSE)	1691-99-2	-	1	µg/m <sup>2</sup>	ND
2-(N-Methylperfluoro-1-octanesulfonamido)- ethanol (MeFOSE)	24448-09-7	-	1	µg/m <sup>2</sup>	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	-	1	µg/m <sup>2</sup>	ND
Sum PFOS related Substances		Max. 1	1	µg/m <sup>2</sup>	ND
Perfluorooctanoic acid (PFOA)	335-67-1	Max. 0.025	0.025	mg/kg	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	-	1	mg/kg	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	-	1	mg/kg	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	-	1	mg/kg	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	1	mg/kg	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	1	mg/kg	ND
2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	-	1	mg/kg	ND
Sum PFOA related Substances		Max. 1	1	mg/kg	ND

### Quinoline

Test Method : DIN 54231:2005, Analysis was conducted by LCMS/DAD

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Test Item(s)	CAS-NO.	Limit	RL	Unit	Result
Quinoline	91-22-6	Max. 50	10	mg/kg	ND

### pH Value

Test Method : According to ISO 4045:2018.

Test Item(s)	Limit	RL	Unit	Result
pH Value	3.50 - 7.00	-	-	5.06

Test Item(s)	Limit	RL	Unit	Result
pH Value	3.50 - 7.00	-	-	4.48

Test Item(s)	Limit	RL	Unit	Result
pH Value	3.50 - 7.00	-	-	4.45

### Remarks :

- (1) RL = Reporting Limit
- (2) ND = Not Detected ( < RL )
- (3) "-" = Not Analyzed / Not Applicable
- (4) "--" = Analysis in Process
- (5) 1 mg/kg = 0.0001%
- (6) mg/kg = ppm

### Comments :

The reported results refer only to the samples submitted to the tests. SGS is not responsible for information regarding the composition of the sample and its manufacturing data. These are the sole responsibility of the customer and are not part of the service scope of SGS do Brasil LTDA.

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The Decision Rule defined by SGS states that the uncertainty of measurement will not be considered in the Verdict (declaration of conformity) when indicated in the test report.

The test SCCP & MCCP is not part of the scope of testing of this laboratory and was produced by a subcontracted laboratory. The outsourced test was performed by laboratory SGS Hong Kong Limited, report number SL12200349282401TX.

The test Perfluorinated and Polyfluorinated Chemicals (PFCs) is not part of the scope of testing of this laboratory and was produced by a subcontracted laboratory. The outsourced test was performed by laboratory SGS Hong Kong Limited, report number SL12300240499501TX.

**WARNING: The opinions and interpretations expressed below are based on the results obtained from the item tested, applicable only to the tests where the specification parameters are included in this report.**

### Summary of Test Result:

Test Parameter	Test Method	Evaluation
Extractable Metals in Leather	With reference to ISO 17072-1:2019, analysis was performed by ICP-OES.	PASS

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Total Heavy Metals	EN ISO 17072-2:2019	PASS
Non-Metal Products	With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.	PASS
Hexavalent Chromium with aging	Aging of the sample is required according to BS ISO 10195 (2018) Method A2 (24h, 80°C, max. 10%rH, usage of a non-ventilated oven) and EN ISO 17075:2017.	PASS
Nonylphenol (NP) and Octylphenol (OP)	Reference by ISO 18218-2:2015, analysis was performed by GC-MS.	PASS
Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)	Reference by ISO 18218-1:2015, analysis was performed by LC-MS.	PASS
AZO Dyes in Leather	With reference to EN ISO 17234-1:2015 & EN ISO 17234-2:2011, analysis was performed with GC-MS/LC-MS.	PASS
Short Chained Chlorinated Paraffin (SCCP) and Medium Chained Chlorinated Paraffin (MCCP)	With reference to DIN EN ISO 18219:2021; analysis was performed by LC/MS-MS.	PASS
Formaldehyde	With reference to ISO 17226-1:2019, analysis was performed by LC-DAD	PASS
Formaldehyde	With reference to ISO 17226-2:2019, analysis was performed by LC-DAD	PASS
Ortho-phenylphenol (OPP)	DIN 50009:2021	PASS
Perfluorinated and Polyfluorinated Chemicals (PFCs)	With reference to ISO 23702-1:2018. Analysis was conducted by LC-MS, LC-MS/MS and GC-MS.	PASS
Quinoline	DIN 54231:2005, Analysis was conducted by LCMS/DAD	PASS
pH Value	According to ISO 4045:2018.	PASS

\*\*\* End of Report \*\*\*

The assay were conducted in the laboratory in Brazil, located at the address cited at the bottom of this report.