



## Test Report

No. BR2301080 Rev. 0

Date: Barueri, 24 Apr 2023

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LLV INDUSTRIA E COMERCIO DE METAIS LTDA.

R DR JOAO DANIEL HILLERBRAND

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NOVO HAMBURGO, RS 93415520

BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: Free Níquel LLV

SGS Order No. : 400000004351

Total of Sample : 1 SAMPLE

Project : VEJA

Test Product : METALS

Mix : NO

Sample composed of fibers of plant  
origin : NO

Sample contains PVC or recycled  
material in the composition : NO

water repellent material : NO

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 PR23-322954 REV00

Sample Receiving Date : 03 Apr 2023

Test Performing Period : 04 Apr 2023 - 20 Apr 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	BR2301080.001	Free Níquel LLV

### Nickel Release in Coated Samples

Test Method : Simulation of wear and corrosion - EN 12472:2005 + A1:2009, followed by extraction - EN 1811:2011. Analysis was performed by ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>001</b>
Nickel Release	Max. 0.50	0.50	µg/cm <sup>2</sup> / week	ND

### Total Heavy Metals

Test Method : DIN EN 16711-1:2016, Analysis was conducted by ICP-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>
Arsenic (As)	7440-38-2	Max. 100.00	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

### Total Metal in Metal Products (Including Metal Jewelry)

Test Method : CPSC-CH-E1001-08.3

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Limit</u>	<u>RL</u>	<u>Unit</u>	<b>Result</b> <b>001</b>
Lead (Pb)	7439-92-1	Max. 90.0000	10.0000	mg/kg	61.5

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 :

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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.

**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
Nickel Release in Coated Samples	Simulation of wear and corrosion - EN 12472:2005 + A1:2009, followed by extraction - EN 1811:2011. Analysis was performed by ICP-MS.	PASS
Total Heavy Metals	DIN EN 16711-1:2016, Analysis was conducted by ICP-MS	PASS
Total Metal in Metal Products (Including Metal Jewelry)	CPSC-CH-E1001-08.3	PASS

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

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

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