



# Test Report

Report No.: HLF18009006E

Date: Sep 17, 2018

Page 1 of 3

Applicant :

Address :

**The following sample(s) and sample information was/were submitted and identified by/on behalf of the client**

Sample Name : Multi tool  
Sample Material : Stainless steel 2CR13  
Sample Model : MP-M017  
Sample Lot : /  
Sample Received Date : Sep 1, 2018  
Test Completed Date : Sep 17, 2018  
Test Method : Refer to the next pages  
Test Results : Refer to the next page(s).

Test Requested	Conclusion
German food and commodities law (LFGB) 30 and technical guidelines for the use of metals and alloys in food contact materials of the council of EU1935/2004 in CM/Res (2013)9.	--
Metal/metal coating -- extractable heavy metals	PASS

Reviewed by:

Lab Senior Engineer

Authorized Signature:

Technology Manager

In no circumstances shall the Company's responsibility extend beyond inspection, testing and reporting upon the samples actually drawn from the bulk and inspected, tested and surveyed by the Company and any inference to be drawn from the results of such inspection or survey or testing shall be entirely in the discretion and at the sole and exclusive responsibility of the Principal. This test report cannot be reproduced except in full.

**FLION TESTING TECHNOLOGIES**

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Page 2 of 3

## Metal / Metallic coating – Extractable heavy metals

Method : Sample preparation in 0.5% citric acid (p/v) in aqueous solution at 40°C for 0.5 hours with reference to EN13130-1:2004 for selection of test method, followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP) and Inductively coupled plasma-mass spectrometry (ICP-MS).

Test Item	Result(mg/kg)		Reporting Limit (mg/kg)	7×SRL (mg/kg)	Specific Release Limit (SRL) (mg/kg)
	1st + 2nd Migration	3rd Migration			
Aluminium (Al)	N.D.	N.D.	0.2	35	5
Antimony (Sb)	N.D.	N.D.	0.02	0.28	0.04
Arsenic (As)	N.D.	N.D.	0.001	0.014	0.002
Barium (Ba)	N.D.	N.D.	0.25	8.4	1.2
Beryllium (Be)	N.D.	N.D.	0.005	0.07	0.01
Cadmium (Cd)	N.D.	N.D.	0.002	0.035	0.005
Chromium(Cr)	N.D.	N.D.	0.1	1.75	0.25
Cobalt (Co)	N.D.	N.D.	0.01	0.14	0.02
Copper (Cu)	N.D.	N.D.	0.1	28	4
Iron (Fe)	N.D.	N.D.	0.25	280	40
Lead (Pb)	N.D.	N.D.	0.005	0.07	0.01
Lithium (Li)	N.D.	N.D.	0.02	0.336	0.048
Manganese(Mn)	N.D.	N.D.	0.25	12.6	1.8
Mercury (Hg)	N.D.	N.D.	0.002	0.021	0.003
Molybdenum(Mo)	N.D.	N.D.	0.02	0.84	0.12
Nickel (Ni)	N.D.	N.D.	0.05	0.98	0.14
Silver (Ag)	N.D.	N.D.	0.03	0.56	0.08
Thallium (Tl)	N.D.	N.D.	0.0001	0.0007	0.0001
Tin (Sn)	N.D.	N.D.	5	700	100
Vanadium (V)	N.D.	N.D.	0.005	0.07	0.01
Zinc (Zn)	N.D.	N.D.	1	35	5
Comment	PASS		--	--	--

Note:

(1) mg/kg = milligram per kilogram of foodstuff in contact with

(2) °C = degree Celsius

(3) N.D. = Not Detected

(4) According to Council of Europe Resolution CM/Res(2013)9, the result from 3<sup>rd</sup> migration shall comply with the Specific Release Limit (SRL) and the sum of 1<sup>st</sup> and 2<sup>nd</sup> migration shall not exceed seven times of SRL for repeated use articles

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Page 3 of 3

**Test Part Description:** Stainless steel

**Sample Photo**



Note: The results shown in this report refer only to the sample(s) tested.

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

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