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TIPRO CO., LTD NO.85, LN 166, XIQUAN RD., SHENGANG TOWHSHIP, CHANGHUA COUNTY (509), TAIWAN

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By	:	TIPRO CO., LTD
Sample Description	:	TITANIUM SPORK
Style/Item No.	:	TKF-222
Sample Material	:	TITANIUM
Sample Receiving Date	:	2017/05/15
Testing Period	:	2017/05/15 TO 2017/05/24

Test Requested	:	As specified by client, the sample(s) was/were tested with reference to Tech Guide on Metals and alloys used in food contact materials of Council of Eur Resolution CM/Res(2013)9, LFGB Section 30 & 31, Regulation (EC) No. 19 - Extractable heavy metals	оре
Test Method	:	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS,	ICP-AES.
Test Result(s)	:	Please refer to following pages.	
Summary	:	Metal / Metallic coating - Extractable heavy metals	PASS



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<u>Test Result(s)</u>

PART NAME No.1 : GRAY METAL

CHANGHUA COUNTY (509), TAIWAN

Metal / Metallic coating - Extractable heavy metals (Unit: mg/kg)

Result No.1 RL SRL Test Item(s) 7 x SRL 1st + 2nd 3rd Migration Migration 0.2 Aluminum (AI) 5.481 35 5 n.d. 0.02 0.28 0.04 Antimony (Sb) n.d. n.d. 0.001 0.014 0.002 Arsenic (As) n.d. n.d. Barium (Ba) 0.25 n.d. n.d. 8.4 1.2 Beryllium (Be) 0.005 n.d. n.d. 0.07 0.01 0.002 Cadmium (Cd) 0.035 0.005 n.d. n.d. Chromium (Cr) 0.25 0.1 n.d. n.d. 1.75 Cobalt (Co) 0.01 0.14 0.02 n.d. n.d. Copper (Cu) 0.1 n.d. n.d. 28 4 Lead (Pb) 0.005 n.d. n.d. 0.07 0.01 Lithium (Li) 0.02 0.0206 n.d. 0.336 0.048 Iron (Fe) 0.25 280 40 n.d. n.d. Manganese (Mn) 0.25 12.6 1.8 n.d. n.d. Mercury (Hg) 0.002 n.d. n.d. 0.021 0.003 Molybdenum (Mo) 0.02 n.d. n.d. 0.84 0.12 Nickel (Ni) 0.05 n.d. n.d. 0.98 0.14 Silver (Ag) 0.03 n.d. n.d. 0.56 0.08 0.0007 0.0001 0.0001 Thallium (TI) n.d. n.d. Vanadium (V) 0.005 0.010 n.d. 0.07 0.01 Titanium (Ti) 0.05 n.d. n.d. _ _ Tin (Sn) 5 n.d. n.d. 700 100 Zinc (Zn) 1 n.d. n.d. 35 5 5 Magnesium (Mg) n.d. n.d. _ _

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PASS



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Remark :

- Test condition & simulant were specified by client.
 - Simulant Used : Artificial tap water
 - Test Condition: 100℃, 4 hrs
- The ratio of surface area to volume ratio was 6 dm² per 1 kg of foodstuff in contact with.

Note :

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. RL = Reporting Limit
- 3. n.d. = Not Detected = below RL
- 4. SRL = Specific Release Limit
- 5. °C = degree Celsius
- 6. " " = Not Regulated
- 7. According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles.

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* The tested sample / part is marked by an arrow if it's shown on the photo. *



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** End of Report **

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