TEST REPORT

KOTITI No. | **8225-1401-111116**

Applicant | DUKSAN Hi-Metal **Address** | 66, Muryong 1-ro, Buk-gu, Ulsan, Korea

Date In | Dec 26, 2025 **Date Out** | Jan 13, 2026

Issue No	4238775073
Sample Description	Sn3.0Ag0.5Cu
Sample Quantity	One (1) Sample(s)
Buyer	N/S
Item Number	N/S
Material	Metal
Testing Period	Dec 26, 2025 ~ Jan 13, 2026
Test Result	For further details, please refer to the following page(s).

Note:
(1) N/S : Not Submitted
(2) N.A. : Not Applicable
(3) N.D. : Not Detected [< RL(Report Limit)]
(4) Negative : Not Detected, Positive : Detected

Affirmation	Prepared by Name : Hyo Jeong Ra	Technical Manager Name : Gun Young Ryu

KOTITI Testing & Research Institute

Contact Information for technical questions and general inquiries.

· Primary Contact : Yun jae Lee **T** (822)3451-7116 **E** yjlee@kr.kotiti-global.com · Back-up : Gun young Ryu **T** (822)3451-7328 **E** gy_ryu@kr.kotiti-global.com

48, Gwacheon-daero 7na-gil, Gwacheon-si, Gyeonggi-do, Republic of Korea **T** (822)6191-6182 **F** (822)3451-7179 **W** www.kotiti-global.com

1. The test results contained in this report are limited to results on the sample(s) that is provided by client and are not necessarily indicative or representative of the qualities of the lot from which the sample(s) was taken or of all products.
2. Further use of the results of this report is prohibited unless allowed under a separate agreement set forth in an official document that is established between the client identified on this letter and the KOTITI Testing & Research Institute.
3. The test result in this report is not related to accreditation of KS Q ISO/IEC 17025 and KOLAS.
4. You can verify the authenticity by the QR code at the bottom right side of the issued report or access http://cs.kotiti-global.com and enter the test report number.

Tested Sample List			
Sample No.	**Sample Description**	**Item No.**	**Material**
1	Sn3.0Ag0.5Cu	N/S	Metal

Sulfur (S), Unit : mg/kg

Test Conducted	Test Method	MDL	Test Results
			1
Sulfur (S)	IEC 62321-3-2:2020 & KS M 0180:2009 determined by C-IC	10	N.D.

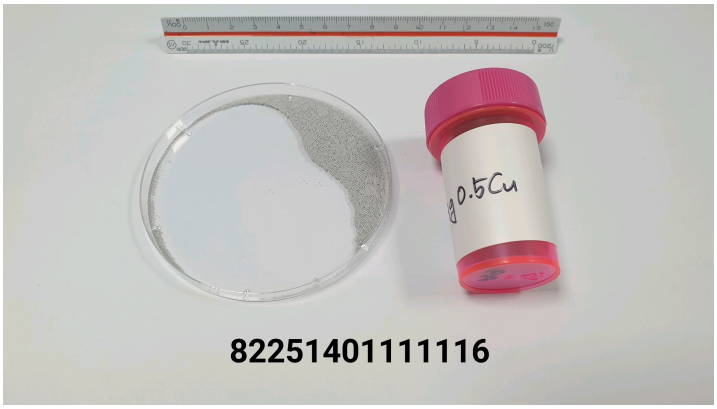
* Tested by : Hyo Jeong Ra, Rae Jin Kwag

Heavy metal, Unit : mg/kg

Test Conducted	Test Method	MDL	Test Results
			1
Silver (Ag)	Reference to EPA 3052:1996 determined by ICP-OES, AAS	5	30 959.3
Copper (Cu)		5	5 206.7
Nickel (Ni)		5	30.3
Zinc (Zn)		5	N.D.
Iron (Fe)		5	18.2
Bismuth (Bi)		0.3	23.2
Aluminium (Al)		5	N.D.
Antimony (Sb)	Reference to EPA 3050B:1996 determined by ICP-OES, AAS	2	38.1
Indium (In)	Reference to EPA 3052:1996 determined by ICP-OES, AAS	5	28.7
Gold (Au)		5	N.D.
Beryllium (Be)	Reference to EPA 3050B:1996 determined by ICP-OES, AAS	2	N.D.
Arsenic (As)	Reference to EPA 3052:1996 determined by ICP-OES, AAS	5	17.5
Germanium(Ge)		5	88.3
Phosphorus (P)		5	N.D.
Palladium (Pd)		5	N.D.

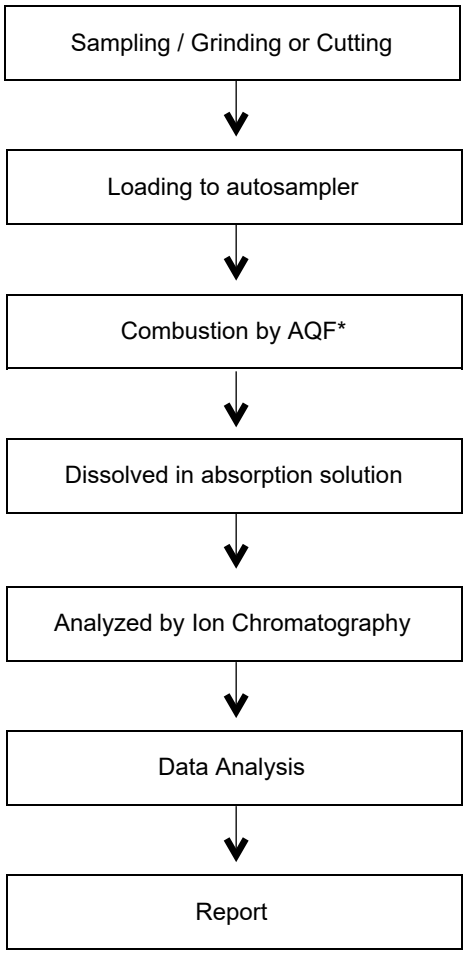
* Tested by : Hyo Jeong Ra, Rae Jin Kwag

Photo of the submitted sample(s)

Sample No.1	

Flow Chart

Sulfur

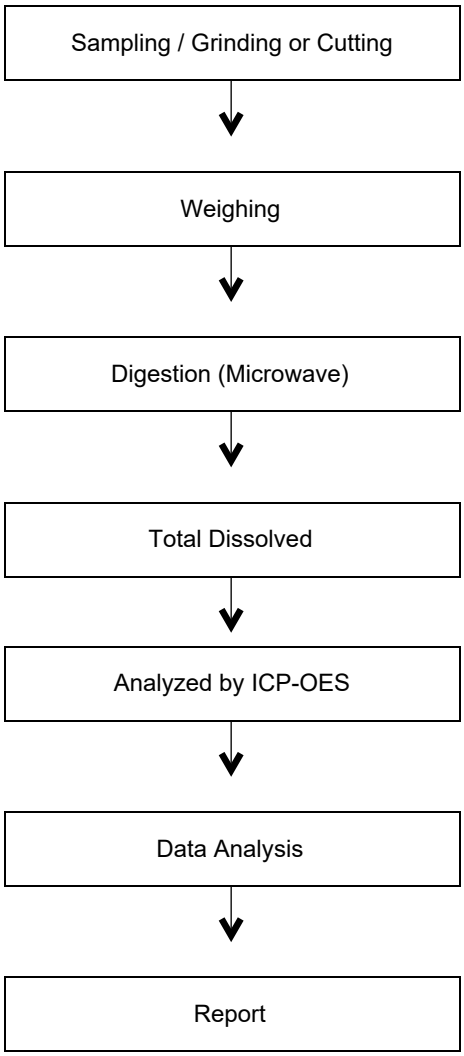


*AQF : Automated Quick Furnace

* The sample is totally digested.

Flow Chart

Heavy metal



Material	Digestion Acid
Polymers	HNO_3, HCl, HF, H_2O_2, H_2SO_4, etc.
Metals	HNO_3, HCl
Electronics	HNO_3, HCl, HF, H_2O_2, H_2SO_4, etc.

* The sample is totally digested.