TEST REPORT

KOTITI No.	8223-1401-100739		
Applicant	DUKSAN Hi-Metal		
Address	66, Muryong 1-ro, Buk-gu, Ulsan, Korea		
Date In	Jan 26, 2023	Date Out	Feb 07, 2023

Issue No	1027258518
Sample Description	Sn3.0Ag0.5Cu
Sample Quantity	One (1) Sample(s)
Buyer	N/S
Item Number	N/S
Material	Metal
Testing Period	Jan 26, 2023 ~ Feb 07, 2023
Test Result	For further details, please refer to the following page(s).

* N/S : Not Submitted, N.A. : Not Applicable, N.D. : Not Detected [< MDL(Method Detection Limit)]

* Negative : Not Detected, Positive : Detected

	Prepared by		Technica	Technical Manager						
Affirmation	Name	:	Yeon ji Park	Prot A	Name	:	Gun young R	yu	(m6)	
			Contact Informatio	KC		Testin Resea	ng & arch Institute al inquiries.			
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111, Sagimakgol-ro	o, Jungwon-g	ju, Seongn	am-si, Kyeonggi-do, ł	Korea T (822)6	6191-6182 F (8	322)3451	I-7179 W www.ko	titi-global.	com	
 The test results or representative of Further use of the established betwee The test result in the You can work the 	contained in of the qualities ne results of en the client is his report is n	this report s of the lot this repor identified of not related t	are limited to results from which the sample t is prohibited unless n this letter and the KO o accreditation of KOL	s on the sample (s) was taken or allowed under TITI Testing & R AS.	e(s) that is provi of all products. a separate agre Research Institute	ded by o eement s	client and are not r set forth in an offic	necessarily	/ indicative ent that is	

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 QPF-16-06(rev.01)KOT/T/

Tested Sample List			
Sample No.	Sample Description	Item No.	Material
1	Sn3.0Ag0.5Cu	N/S	Metal
8		•	

Heavy metal, Unit: mg/kg

Test Conducted	Test Method	MDL	Test Results
	·		1
Silver (Ag)		5	30 486.8
Copper (Cu)		5	5 083.6
Nickel (Ni)		5	33.3
Zinc (Zn)		5	N.D.
Iron (Fe)		5	27.7
Bismuth (Bi)		5	36.7
Aluminium (Al)	Reference to EPA 3052:1996 determined by ICP-OES	5	N.D.
Arsenic (As)		5	22.2
Antimony (Sb)		2	69.6
Phosphorus (P)		5	N.D.
Indium (In)		5	16.6
Germanium (Ge)		5	86.3
Gold (Au)		5	N.D.
Palladium (Pd)		5	N.D.
Beryllium (Be)		2	N.D.

* Tested by : Yeon ji Park



Sulfur, 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 La

Photo of the submitted sample(s)

Sample No.1	and a star front of the free f
	BOAR O.L
	82231401100739

Flow Chart

Heavy metal

KOTITI



Material	Digestion Acid
Polymers	HNO ₃ , HCI, HF, H ₂ O ₂ , H ₂ SO ₄ , etc.
Metals	HNO ₃ , HCI
Electronics	HNO ₃ , HCI, HF, H ₂ O ₂ , H ₂ SO ₄ , etc.

* The sample is totally digested.

Flow Chart

Sulfur

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*AQF : Automated Quick Furnace

* The sample is totally digested.