INSPECTION & TEST REPORT

No.:0220260707061

Report Date:2026/08/13

Testing Category: Entrusted test

Customer:Shenzhen Xinyang Meixi Business Consulting Co., Ltd.

Address:Room 25I, Phase II, Shuiwan 1979 Plaza, No.111 Taizi Road, Shuiwan Community, Zhaoshang Subdistrict, Nanshan District, Shenzhen

Telephone:/

Sample Description:Sample

Sample Quantity:1 Other Information: /

Sample Status:/

Specifications and models:/

Brand：/

The above information is provided by the Client. The organization is not responsible for verifying its authenticity, accuracy and completeness unless otherwise specified.

Sample receiving Date:2026/08/10

Testing Period:2026/08/10-2026/08/12

Testing Results:Please refer to next pages. The test results presented in this report refer only to the samples.

Approved by:

组织领域批准人 傅钟臻 化学领域批准人 姚伟

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Guobiao (Beijing)Testing & Certification Co.，Ltd.
National Center of Analysis and Testing for Non-ferrous Metals& Electronic Materials
ADD: No.11, Xingkedong Dajie, Yanqi Economic Development Area, Huairou District, Beijing, China 101407
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1、Test Item:GDMS

No. of the Samples from Customer：Ultra high purity ultrafine copper powder PMU (copper content 99.9999%)

Test Method:ISO/TS 15338:2025

Test Place:No. 11, Xingke East Street, Yanqi Economic Development Area, Huairou District, Beijing

Determine elements	Measurement results(mg/kg)	Determine elements	Measurement results(mg/kg)	Determine elements	Measurement results(mg/kg)
Li	< 0.005	Ga	< 0.005	Nd	<0.005
Be	< 0.005	Ge	< 0.005	Sm	<0.005
B	< 0.005	As	4.68	Eu	<0.005
C	/	Se	0.56	Gd	<0.005
N	/	Br	< 0.05	Tb	<0.005
O	/	Rb	< 0.05	Dy	<0.005
F	< 0.5	Sr	< 0.05	Ho	<0.005
Na	1.03	Y	< 0.005	Er	<0.005
Mg	0.36	Zr	< 0.005	Tm	<0.005
Al	0.25	Nb	< 0.005	Yb	<0.005
Si	1.82	Mo	< 0.005	Lu	<0.005
P	0.037	Ru	< 0.005	Hf	<0.005
S	16.1	Rh	< 0.05	Ta	<0.05
Cl	5.02	Pd	< 0.005	W	<0.005
K	0.10	Ag	10.9	Re	<0.005
Ca	2.01	Cd	< 0.005	Os	<0.005
Sc	< 0.005	In	< 0.005	Ir	<0.005
Ti	0.032	Sn	0.030	Pt	<0.005
V	< 0.005	Sb	2.41	Au	<0.05
Cr	0.037	Te	0.088	Hg	0.24
Mn	0.082	I	< 0.005	Tl	<0.005
Fe	1.55	Cs	< 0.005	Pb	0.44
Co	< 0.005	Ba	< 0.005	Bi	0.13
Ni	0.050	La	<0.005	Th	<0.005
Cu	基体	Ce	<0.005	U	<0.005
Zn	0.036	Pr	<0.005		
Note	Glow Discharge Mass Spectrometry (GDMS) is a semi-quantitative analysis method. The controlled impurities of copper powder include Li, Be, Ti, V, Cr, Co, Rb, Mo, Pd and Cd. Purity: 99.99999314%. (The Cu purity is calculated by subtracting controlled impurities from 100%. The controlled impurities are provided by the client.)				

2、 Test Item:Apparent Density

Test Method:GB/T 1479.1-2011

Test Place:No.11, Xingkedong Dajie, Yanqi Economic Development Area, Huairou District, Beijing, China

Registered No. of the Samples	No. of the Samples from Customer	Result（g/cm3）
0220260707061001	Ultra high purity ultrafine copper powder PMU (copper content 99.9999%)	1.93
Note	/	

3、 Test Item:Tap Density

Test Method:GB/T 5162-2021

Test Place:No.11, Xingkedong Dajie, Yanqi Economic Development Area, Huairou District, Beijing, China

Registered No. of the Samples	No. of the Samples from Customer	Result（g/cm3）
0220260707061001	Ultra high purity ultrafine copper powder PMU (copper content 99.9999%)	2.9
Note	/	

4、Test Item:Flow Rate

Test Method:GB/T 1482-2022

Test Place:No.11, Xingkedong Dajie, Yanqi Economic Development Area, Huairou District, Beijing, China

Registered No. of the Samples	No. of the Samples from Customer	Result（s/50g）
0220260707061001	Ultra high purity ultrafine copper powder PMU (copper content 99.9999%)	/
Note	The powder cannot flow down from the funnel independently, and the flowability of the powder cannot be tested using this standard method.	

5、 Test Item:Particle size and shape analysis

Test Method:GB/T 21649.2-2025

Test Place:No.11, Xingkedong Dajie, Yanqi Economic Development Area, Huairou District, Beijing, China

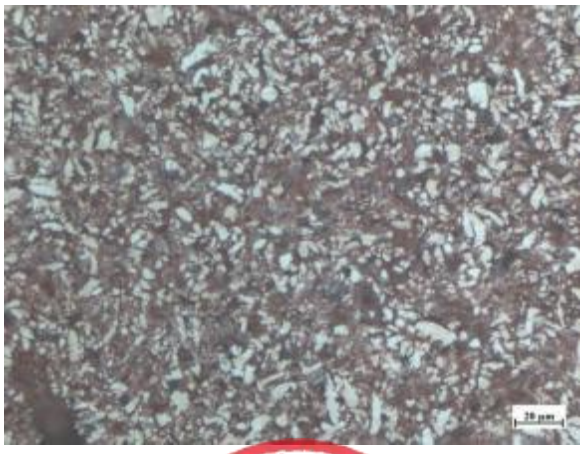
Registered No. of the Samples	No. of the Samples from Customer	Result
0220260707061001	Ultra high purity ultrafine copper powder PMU (copper content 99.9999%)	Sphericity (SPHT): 0.77; Length to width ratio (B/L): 0.61; Roundness (C): 0.87. Please refer to the attached figure for detailed information.
备注	/	

6、 Test Item:Grain size

Test Method:GB/T 6394-2017

Test Place:No.11, Xingkedong Dajie, Yanqi Economic Development Area, Huairou District, Beijing, China

Registered No. of the Samples	No. of the Samples from Customer	Grain size
0220260707061001	Ultra high purity ultrafine copper powder PMU (copper content 99.9999%)	The powder particles are too fine, and the grain size cannot be evaluated
Note	/	



0220260707061001-500X

End

Attachment: (Particle Size and Shape)

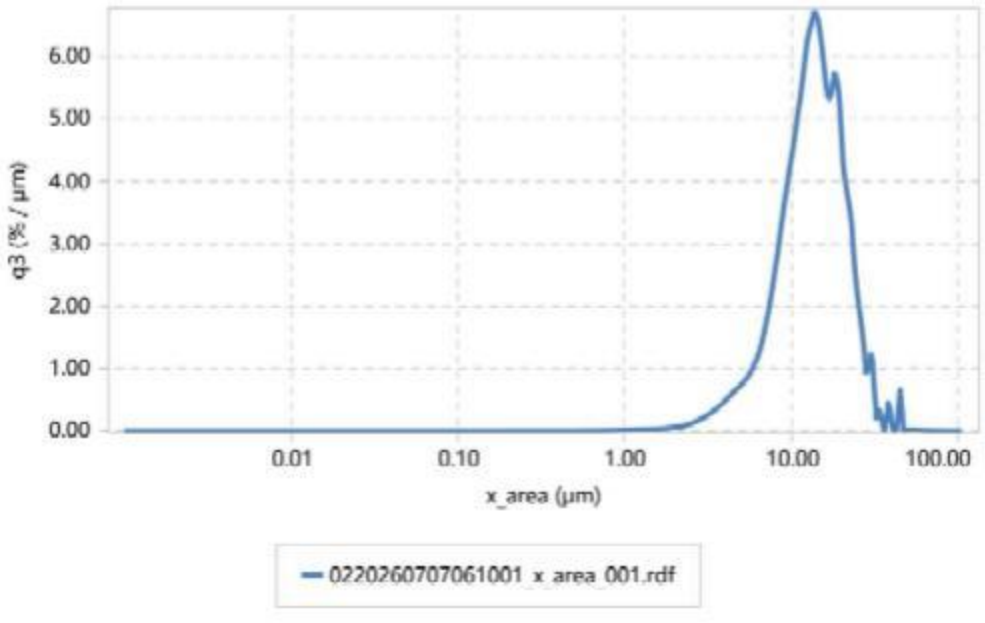
基本信息

公司名称:	
测试人员:	
委托编号:	0220260707061001_x_area_001.rdf
样品名称:	试样
测试时间:	2026/7/31 15:59:07
测试时长:	3 min 20 s
备注:	

测试参数

粒径定义:	x_area		
分散模块:	X-Jet	喷嘴宽度:	4 mm
覆盖面积:	0.2 %		
速率匹配:	Cu合金.ftv		
筛分拟合:	无		

粒径图表



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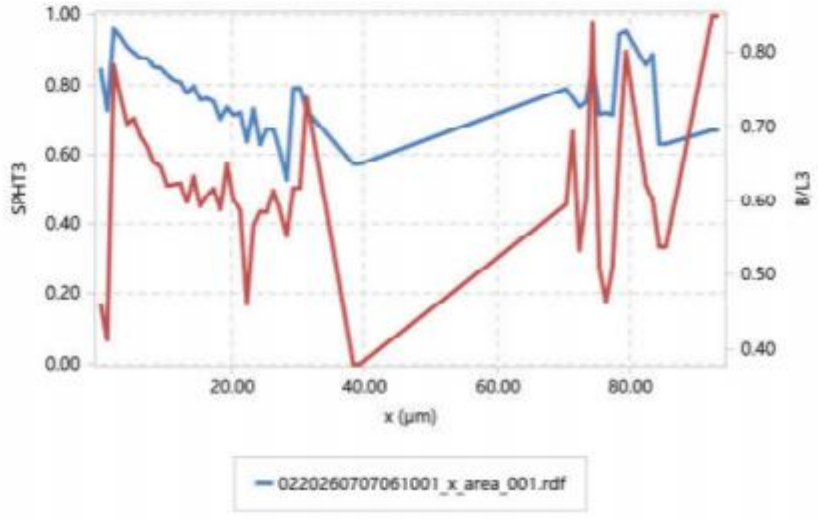
特征

持续时间	3 分钟 20 s
基准摄像头:	
颗粒	138,607
图像	35,168
聚焦摄像头:	
颗粒	27,563
图像	32,970
x(Q3 = 10.00 %)	9.55 µm
x(Q3 = 50.00 %)	16.29 µm
x(Q3 = 90.00 %)	26.04 µm
Q3(1.00 µm)	0 %
Q3(C = 0.8)	14.80 %
1-Q3(SPHT = 0.8)	41.99 %
1-Q3(b/l = 0.8)	5.59 %
1-Q3(B/L = 0.8333)	3.62 %
Mean3(SPHT)	0.7666
Mean3(b/l)	0.5919
Mean3(B/L)	0.6112
Mean3(C)	0.8732
SPAN3	1.012
U3	1.910

表格



粒形图表



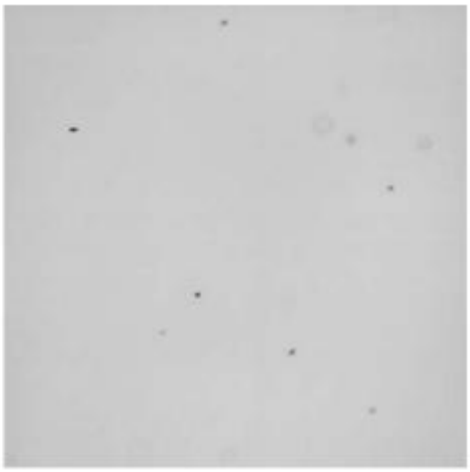
0220260707061001

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原始图像

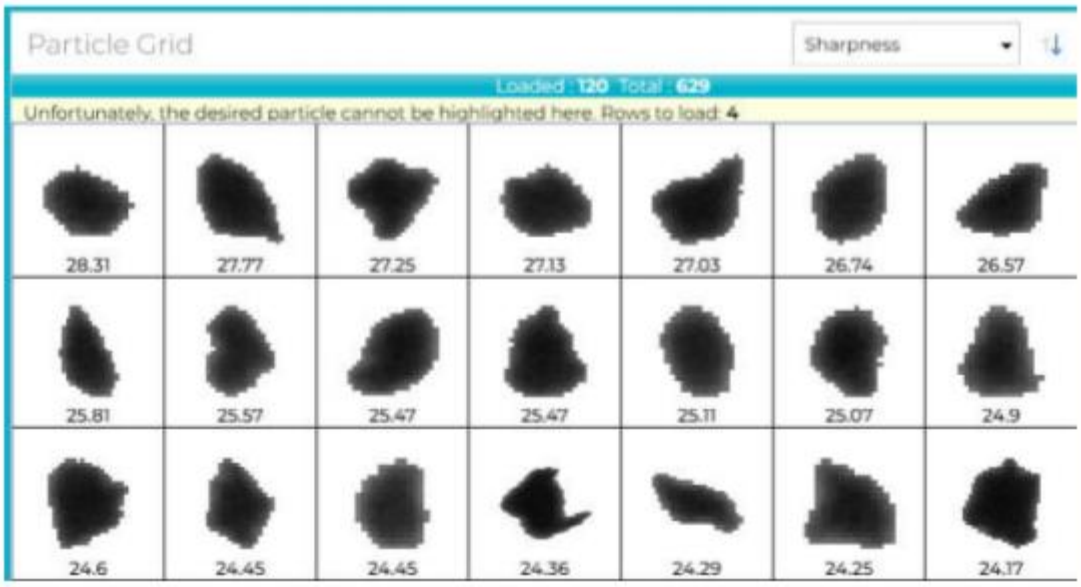


基准摄像头



聚焦摄像头

颗粒图库



0220260707061001