

**CERTIFICATE OF ANALYSIS: 202408160104**

Material Grade	17-4PH Powder	Product No.	F0174-G-1553
Production Date	2024-08-09	Order No.	ILC-240724
Lot No.	20240809-03	Quantity	500 kg
Process	Gas Atomization	Powder Size	15-53 $\mu$ m

**Chemical Compositions / wt%**

Element	Specification	Tested
C	0.07 max.	0.031
Si	1.0 max.	0.327
P	0.035 max.	0.019
Ni	3.0-5.0	4.042
Nb	0.15-0.45	0.24
Cr	15.0-17.0	16.026
S	0.025 max.	0.002
O	0.06 max.	0.047
N	0.05 max.	0.032
Mn	1.0 max.	0.676
Cu	3.0-5.0	3.185
Fe	Bal.	Bal.

Standards: GB/T 14265, GB/T 23942

**Powder Property**

Particle Size Distribution (laser diffraction analysis)	D10/ $\mu$ m	D50/ $\mu$ m	D90/ $\mu$ m	Standards
Flowability (s/50g)	19.29	33.34	52.96	GB/T 19077
Apparent density ( $\text{g}/\text{cm}^3$ )		19.2		GB/T 1482
Tap density ( $\text{g}/\text{cm}^3$ )		4.09		GB/T 1479.1
		5.16		GB/T 5162

Test condition: Temperature 25° C, Humidity 40%

Judgement: Pass



Check: Y. Tang

Approval: L. Zhang

Date: 2024-08-16