

**CERTIFICATE OF ANALYSIS: 202309120057**

Material Grade	Inconel 718 Powder	Product No.	NAM18-1553
Customer No.	ITN	Order No.	ITN-230723
Lot No.	20230908-02	Quantity	100 kg
Process	Gas Atomizing	Powder Size	15-53µm

**Chemical Compositions / wt%**

Element	Specification	Tested
Ni	50.0-55.0	53.2
Nb	4.75-5.50	4.98
Mo	2.8-3.3	3.13
Cr	17.0-21.0	19.5
Al	0.2-0.8	0.60
Ti	0.65-1.15	0.92
Si	0.35 max.	0.15
Mn	0.35 max.	0.09
Co	1.00 max.	0.03
Fe	Bal.	Bal.
O	/	0.011
S	0.015 max.	0.0006
P	0.015 max.	0.0030
C	0.08 max.	0.022
N	/	0.0048

Standards: GB/T 14265, GB/T 23942

**Powder Property**

Particle Size Distribution (laser diffraction analysis)	D10/um	D50/um	D90/um	Standards
	19.4	33.0	52.3	GB/T 19077
Flowability (s/50g)		16.1		GB/T 1482
Apparent density (g/cm <sup>3</sup> )		4.50		GB/T 1479.1

Test condition: Temperature 25° C, Humidity 40%

Judgement: Pass



Check: Y.Tang

Approval: L.Zhang

Date: 2023-09-12