

CERTIFICATE OF ANALYSIS: 202405290017

Material Grade	IN738LC Powder	Product No.	NAM38L-1553
Customer No.	SAN	Order No.	SAN-231220
Lot No.	20240108-01	Quantity	200kg
Process	Gas Atomizing	Powder Size	15-53µm

Chemical Compositions / wt%

Element	Specification	Tested %
Ni	Bal.	Bal.
Cr	15.7-16.3	16.11
Mo	1.5-2.0	1.89
Nb	0.6-1.1	0.88
Ta	1.5-2.0	1.86
Al	3.2-3.7	3.47
Ti	3.2-3.7	3.42
Co	8.0-9.0	8.48
W	2.4-2.8	2.66
Zr	0.05-0.12	0.11
Fe	0.2 max.	0.11
Mn	0.02 max.	0.017
Si	0.30 max.	0.057
C	0.10-0.13	0.11
B	0.005-0.015	0.008
S	0.015 max.	0.001
O	0.03 max.	0.008
N	0.02 max.	0.004

Standards: GB/T 14265, GB/T 23942

Powder Property

Particle Size Distribution (laser diffraction analysis)	D10/um	D50/um	D90/um	Standards
	22.4	36.6	55.7	GB/T 19077
Flowability (s/50g)		17.3		GB/T 1482
Apparent density (g/cm ³)		4.22		GB/T 1479.1

Test condition: Temperature 25° C, Humidity 40%

Judgement: **Pass**

Check: Y.Tang

Approval: L.Zhang

Date: 2024-01-11