

CERTIFICATE OF ANALYSIS: 202407290001

| | | | |
|----------------|---------------|-------------|-------------|
| Material Grade | CMSX-4 Powder | Product No. | NAM-4-90150 |
| Customer No. | CNF | Order No. | CNF-240723 |
| Lot No. | 20240420-03 | Quantity | 5 kg |
| Process | Gas Atomizing | Powder Size | 90-150µm |

Chemical Compositions / wt%

| Element | Specification | Tested |
|---------|---------------|--------|
| Ni | Bal | Bal |
| Cr | 6.4-6.6 | 6.57 |
| Co | 9.6-9.9 | 9.74 |
| Mo | 0.5-0.7 | 0.63 |
| Al | 5.45-5.75 | 5.66 |
| Ti | 0.9-1.1 | 1.02 |
| Ta | 6.3-6.7 | 6.47 |
| W | 6.2-6.6 | 6.46 |
| Hf | 0.06-0.14 | 0.089 |
| Re | 2.8-3.1 | 2.98 |
| S | / | 0.0007 |
| C | / | 0.009 |
| O | ≤0.03 | 0.021 |
| N | ≤0.03 | 0.0043 |

Standards: GB/T 14265, GB/T 23942

Powder Property

| Particle Size Distribution (laser diffraction analysis) | D10/um | D50/um | D90/um | Standards |
|--|--------|--------|--------|-------------|
| Flowability (s/50g) | | 15.6 | | GB/T 1482 |
| Apparent density (g/cm ³) | | 4.54 | | GB/T 1479.1 |
| Tap density (g/cm ³) | | 5.28 | | GB/T 5162 |

Test condition: Temperature 25° C, Humidity 40%

Judgement: Pass



Check: Y.Tang

Approval: L.Zhang

Date: 2024-07-29