

CERTIFICATE OF ANALYSIS: 202404290030

Material Grade	4140 Powder	Product No.	F4140-G-0025
Particle Shape	Spherical	Order No.	MXA-240412
Lot No.	20240223-01	Quantity	270 kg
Process	Gas Atomizing	Powder Size	0-25 μ m

Chemical Compositions / wt%

Element	Specification	Tested
Fe	Bal	Bal
Mo	0.15-0.25	0.21
Si	0.15-0.35	0.23
Cr	0.80-1.10	0.92
C	0.38-0.43	0.41
Mn	0.75-1.00	0.79
S	0.04 max.	0.009
O	0.25-0.35	0.31
P	0.04 max.	0.006

Standards: GB/T 14265, GB/T 23942

Powder Property

Particle Size Distribution	D10/ μ m	D50/ μ m	D90/ μ m	Standards
(laser diffraction analysis)	2.8	8.9	21.8	GB/T 19077
Apparent density (g/cm ³)	2.84			GB/T 1479.1
Tap density (g/cm ³)	4.42			GB/T 5162

Test condition: Temperature 25°C, Humidity 40%

Judgement: **Pass**

Check: Y.Tang

Approval: L.Zhang

Date: 2024-04-29