

CERTIFICATE OF ANALYSIS: 202406200098

Material Grade	52100 Powder	Product No.	F5210-G-1553
Production Date	2024-06-11	Order No.	CNC-240428
Lot No.	20240611-03	Quantity	400 kg
Process	Gas Atomizing	Powder Size	15-53 μ m

Chemical Compositions / wt%

Element	Specification	Tested
C	0.98-1.1	1.03
Si	0.15-0.35	0.27
Mn	0.25-0.45	0.39
Cr	1.3-1.6	1.47
O	/	0.0211
P	0.04 max.	0.015
S	0.02 max.	0.015
Fe	Bal	Bal

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)	19.3	31.7	53.5	GB/T 19077
Flowability (s/50g)		19.4		GB/T 1482
Apparent density (g/cm ³)		4.07		GB/T 1479.1
Tap density (g/cm ³)		4.68		GB/T 5162

Test condition: Temperature 25° C, Humidity 40%

Judgment: Pass



Check: Y. Tang

Approval: L. Zhang

Date: 2024-06-20