

**CERTIFICATE OF ANALYSIS: 202501220258**

Material Grade	1045 Powder	Product No.	F1045-GC-0508
Production Date	2025-01-05	Order No.	CNH-20250102
Lot No.	20250105-01	Quantity	500 kg
Process	Gas Atomizing & Carbonyl	Powder Size	D50=5-8µm

**Chemical Compositions / wt%**

Element	Specification	Tested
Fe	Bal	Bal
Si	0.55 max.	0.19
O	0.8 max.	0.6
C	0.42-0.50	0.48
Mn	0.60-0.90	0.84
S	0.025 max.	0.019
P	0.025 max.	0.014

Standards: GB/T 14265, GB/T 23942

**Powder Property**

Particle Size Distribution (laser diffraction analysis)	D10/um	D50/um	D90/um	Standards
	1.71	5.23	17.52	GB/T 19077
Apparent density (g/cm <sup>3</sup> )	2.75			GB/T 1479.1
Tap density (g/cm <sup>3</sup> )	4.31			GB/T 5162

Test condition: Temperature 25° C, Humidity 40%

Judgement: Pass



Check: Y. Tang

Approval: A. Xiao

Date: 2025-01-22