

KOS Metal Powder for AM

KOSMP 304L



KOS metal powder with EIGA system

KOS provides atomized metal powder for high quality with EIGA systems.

- High pressure inert gas(Argon or Nitrogen) for atomizing
- Very high purity, spherical powder
- Most suitable for more reactive metal alloys

Powder Manufacturing

Grade	304L
Size	0~15, 15-45, 15-53, 20-63, 45-100, 45-150 μm
Manufacturing process	Gas Atomized (EIGA)
Gas	Argon or Nitrogen
Packaging	5 kg

Technical Specifications : 15-53 μm

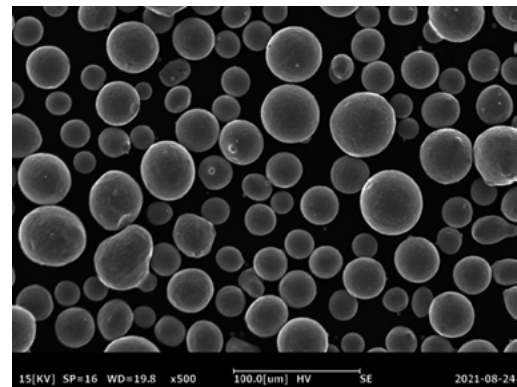
Chemical Composition

Element	Requirement (wt%)	Test Method
C	Max. 0.03	ASTM A751
Mn	Max. 2.00	
Si	Max. 1.00	
P	Max. 0.045	
S	Max. 0.03	
Cr	18.00 - 20.00	
Ni	8.00 - 12.00	
Fe	Bal.	

- Similar Chemistry : ASTM A276, ASTM A182, ASTM A240, AMS 5569

Morphology

Powder is predominantly spherical, with low levels of deformed particles



SEM Image (x500)

Particle Size Distribution Analysis

Size	Requirement	Test Method
D10, D50, D90	Reported	ASTM B822
<15 μm	Max. 5.0 vol. %	

Sieve Analysis

Size	Requirement	Test Method
53 μm <	Max. 5.0 wt%	ASTM B214

Powder Density Analysis

Property	Requirement	Test Method
Apparent density	Min 4.00 g/cm ³	ASTM B212
Tap density	Min 4.80 g/cm ³	ASTM B527

Flowability

Property	Requirement	Test Method
Flow Rate	Max 30 s/50g	ASTM B213

ISO 9001 & AS9100 Certified