

# Pearl<sup>®</sup> Micro Ni625

## Powder for Additive Manufacturing



**PEARL**  
Micro

### CHEMICAL COMPOSITION

Elements	Ni	Fe	Cr	Nb	Mo	Ti	Al	Mn	Si	Co	C	O	N	P	S
Min	Bal.		20	3.15	8										
Max		5	23	4.15	10	0.4	0.4	0.5	0.5	0.1	0.1	0.02	0.02	0.015	0.015

### GRADE DESIGNATION

- European standards
  - 22Mo9Nb
  - 2.4856
- US Standards
  - UNS N06625
  - ASTM F3056

### CHARACTERISTICS

Nickel-based superalloy with:

- Very good resistance to oxidation
- Excellent mechanical properties at high temperatures up to 980°C (1800°F)
- Excellent corrosion resistance
- Good low temperature toughness

### QUALITY CERTIFICATES

- EN9100 accreditation
- Certified material test report

### PARTICLE SIZE DISTRIBUTION

Laser powder bed fusion (10-45  $\mu\text{m}$ , 10-53  $\mu\text{m}$ )

Electron powder bed fusion (45-90  $\mu\text{m}$ )

Directed energy deposition (45-106  $\mu\text{m}$ , 45-150  $\mu\text{m}$ )

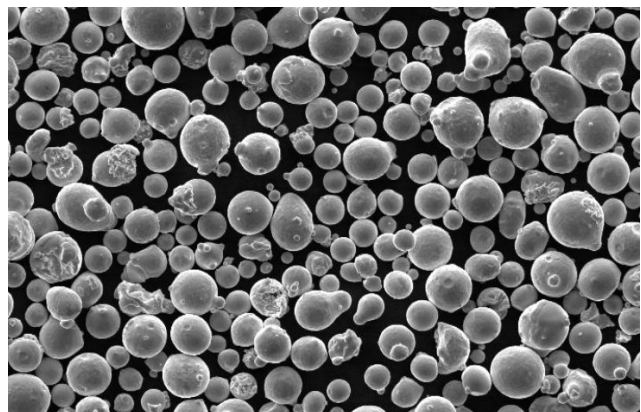
Customized particle size distribution on demand

### DENSITY

Apparent density 4.5 g/cm<sup>3</sup>  $\pm$ 0.2

Tap density 5.3 g/cm<sup>3</sup>  $\pm$ 0.2

### SHAPE AND MORPHOLOGY



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