

# Vexma Technologies Maraging Steel – 18-Ni300

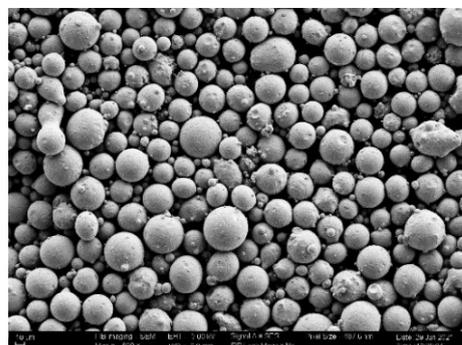
### Particle Size Distribution

Light scattering (ASTM B822 / ISO 13320-1)				
Application	Size Range	D10%	D50%	D90%
MIM	<22µm	5.0 max	12.0 max	22.0 max
BJ	<25µm	5.5 max	13.5 max	25.0 max
LPBF	15 – 53µm	24.0 max	36.0 max	54.0 max
	15 – 45µm	24.0 max	36.0 max	48.0 max

### Physical Properties

Property	g/cc	Test Method
Tap Density	4.80 min	ASTM B527
True Density	8.00 min	ASTM B923

\* Applicable only for LPBF



### Chemical Composition (weight %)

Element	Range (%)
Carbon	0.03 max
Silicon	0.10 max
Manganese	0.10 max
Phosphorous	0.010 max
Sulphur	0.010 max
Nickel	18.0 – 19.0
Molybdenum	4.70 – 5.20
Cobalt	8.50 – 9.50
Titanium	0.50 – 0.80
Aluminium	0.05 – 0.15
Oxygen*	0.04 max
Nitrogen*	0.06 max
Iron	Balance

### Morphology

**Customization** on chemical composition & particle size can be made.

**Packing** with 10 / 50 / 100 kg containers & custom packing is possible.