

# Material List and Spec Sheets

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# Stainless Steel 316L

## Physical Properties

Particle Size	15 - 53 $\mu$ m
Form	Spherical
Liquidity	40 S
Apparent Density	3.9 g/cm <sup>3</sup>

## Molded Part Performance

Density	$\geq$ 99%
Tensile Strength	$\geq$ 560 MPa
The Yield Strength	$\geq$ 480 MPa

# Titanium Alloy

## Physical Properties

Particle Size	15 - 53 $\mu$ m
Form	Spherical
Liquidity	45 S
Apparent Density	2.5 g/cm <sup>3</sup>

## Molded Part Performance

Density	$\geq$ 99%
Tensile Strength	$\geq$ 600 MPa
The Yield Strength	$\geq$ 540 MPa

# Aluminium Alloy

## Physical Properties

Particle Size	15 - 53µm
Form	Spherical
Liquidity	150 S
Apparent Density	1.45 g/cm <sup>3</sup>

## Molded Part Performance

Density	≥ 95%
Tensile Strength	≥ 330 MPa
The Yield Strength	≥ 245 MPa

## Metal 3D Printing Materials

# Die Steel

### Physical Properties

Particle Size	15 - 53 $\mu$ m
Form	Spherical
Liquidity	40 S
Apparent Density	4.3 g/cm <sup>3</sup>

### Molded Part Performance

Density	$\geq$ 99%
Tensile Strength	$\geq$ 1090 MPa
The Yield Strength	$\geq$ 1000 MPa

# Nickel Base Superalloy (GH4169)

## Physical Properties

Particle Size	15 - 53 $\mu$ m
Form	Spherical
Liquidity	50 S
Apparent Density	4.8 g/cm <sup>3</sup>

## Molded Part Performance

Density	$\geq$ 98%
Tensile Strength	$\geq$ 400 MPa
The Yield Strength	$\geq$ 260 MPa