



# 3D Printing

## AlSi10Mg Aluminum Alloy

When you need to kick your designs in to high gear  
choose CNPC POWDER as your trusted source for  
Aluminum alloy powders.

CNPC POWDER NORTH AMERICA INC  
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# AlSi10Mg OVERVIEW

AL

High-purity  
Low cost  
Aluminum  
Alloy Powders

## APPLICATIONS:

- Structural Components
- Heat Sinks
- Calipers
- Frames
- Defense




# THE CNPC POWDER ADVANTAGE

AlSi10Mg as an alloy consists of Aluminum Silicon and Magnesium as principle elements. The alloy is ideal for applications where light weight and complex geometries are required. However, this material can also handle dynamic loads and exhibits good hardness which when you take into account its thermal and is ideal for applications requiring dynamic properties. This material also sees comparable or improved performance when compared to T6 heat treatment. As well, due to the fine microstructure and Si distribution, AlSi10Mg powder can achieve higher improved or comparable mechanical properties as cast material. Owing to the formation of oxide layers on the surface, AlSi10Mg exhibits good corrosion resistance. This improves AlSi10Mg's applications in the market for applications requiring strength and light weight in dynamic environments.



Supporting  
AM technology.

# Advancing Powder technology

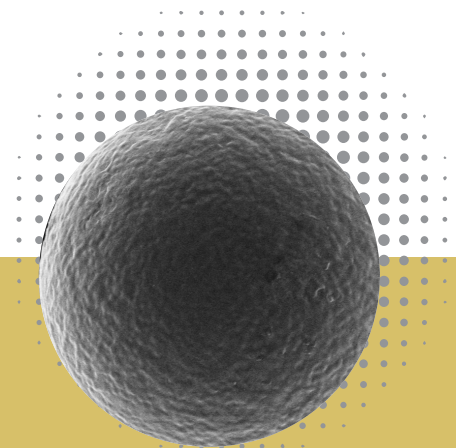
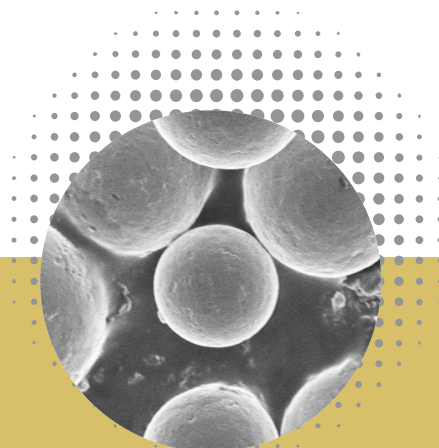
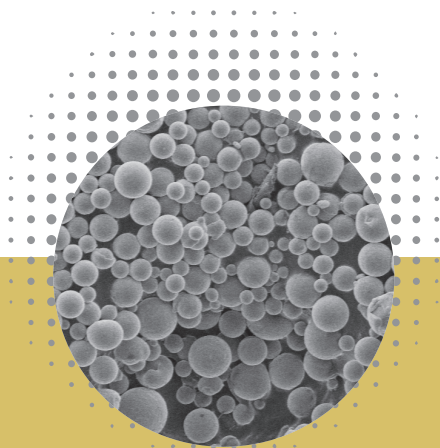


Our new atomizer now produces high yield for powder bed AM.

AMP production volumes for Aluminum alloys is around 30 tons per month per alloy.



# CNPC POWDER



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