

# $\text{Ti}_3\text{AlN}$ | MAX Phase



## Titanium Aluminium Nitride Powder

Catalogue no -

**NS6130-12-000872**

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# Titanium

## Aluminium Nitride Powder

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The MAX phases are a class of nano laminated materials with the general composition  $Mn+1AX_n$   $n=1-3$ , where M is an early transition metal, A is an A-group element, and X is either carbon or nitrogen. Lately, these compounds have attracted extensive attention due to their combination of both ceramic and metallic properties, which makes them potentially useful in, e.g., high-temperature structural, electrical, and tribological applications.

## Quick Facts

Product	:	Titanium Aluminium Nitride Powder
Stock No	:	NS6130-12-000872
Molecular Formula	:	Ti <sub>3</sub> AlN
Molecular Weight	:	185.59g/mol
Form	:	Powder
Colour	:	Dark gray
Density	:	4.35g/cm <sup>3</sup>



## Packing Sizes:

25Gms, 50Gms, 100Gms  
500Gms & Bulk Orders

## Properties:

- ✓ Corrosion resistance
- ✓ Good thermal
- ✓ Good electrical conductivity
- ✓ Excellent thermal shock resistance
- ✓ Damage tolerance

## Applications:

- ✓ Aerospace
- ✓ Automotive
- ✓ Marine
- ✓ Military
- ✓ Motorsports
- ✓ Nuclear plants
- ✓ Oil and gas
- ✓ Weaponry
- ✓ High temperature applications
- ✓ Holds sharp edges or corners
- ✓ Abrasion and erosion resistance

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20ZICE4588M

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