

NS6130-12-002340

VANADIUM NIOBIUM

Aluminium Carbide
Powder

Quick Facts

Product	:	Vanadium Niobium Aluminium Carbide
Stock No	:	NS6130-12-002340
Molecular Formula	:	VNbAlC
Form	:	Powder
Purity	:	99.9%

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MAX phases (M = transition metal, A = A-group element, X = carbon and/or nitrogen) are a family of layered ternary compounds known for their unique combination of metallic and ceramic properties. They exhibit characteristics of both ceramics and metals, such as high thermal and electrical conductivity, good mechanical properties, and excellent thermal shock resistance..

VNbAlC consists of alternating layers of vanadium (V), niobium (Nb), aluminum (Al), and carbon (C) atoms. These layers are stacked in a hexagonal arrangement. Used as a component in high-temperature protective coatings for aerospace and automotive applications

VNbAlC

Applications

- Refractory Materials
- Cutting Tool
- High-Temperature Coating
- Electronic Packaging
- Energy Storage and Conversion
- Armor and Ballistic Protection



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20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
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