

# $\text{ScAl}_3\text{C}_3$ | MAX Phase



## Scandium Aluminium Carbide Powder

Catalogue no -

**NS6130-12-001694**

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# Scandium

## Aluminium Carbide Powder

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Metal-organic frameworks (MOFs) are an emerging class of materials exhibiting high surface areas, controlled pore sizes, open metal sites and organic linkers. Utilizing MOFs as direct electrode materials for electrochemical sensing can offer inherent advantages such as containing a sensing element and a redox mediator in a single molecule; however, the direct use of MOFs as electrode materials is hindered because of their insulating nature and less stability in an aqueous medium.

## Quick Facts

Product	:	Scandium Aluminum Carbide Powder
Stock No	:	NS6130-12-001694
APS	:	40-50µm
Molecular Formula	:	ScAl <sub>3</sub> C <sub>3</sub>
Molecular Weight	:	161.93g/mol
Form	:	Powder



## Packing Sizes:

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



## Properties:

- ✓ Large Surface Area
- ✓ High degree of crystallinity
- ✓ Low density
- ✓ Uniform channels
- ✓ Porosity
- ✓ High thermal stability
- ✓ Chemical tailor ability

## Applications:

- ✓ Drug Delivery (e.g. slow release of target molecules)
- ✓ Water harvesting
- ✓ Removal of toxic and hazardous substances (e.g. chemical warfare agents)
- ✓ Heat transformation (e.g. adsorption heat pumps)
- ✓ Respiratory systems (e.g. gas masks)
- ✓ Water treatment (e.g. heavy metal removal)

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20ZICE4588M

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