

Ti_3C_2 | MAX Phase



MXene
Multilayer
Nanoflake

Catalogue no -

NS6130-12-001757

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Ti₃C₂Tx MXene

Multilayer Nanoflake

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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	:	Ti ₃ C ₂ Tx MXene Multilayer Nanoflake
Stock No	:	NS6130-12-001757
CAS	:	12316-56-2
Molecular Formula	:	Ti ₃ C ₂ Tx
Molecular Weight	:	167.62g/mol
Form	:	Powder

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)



Packing Sizes:

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



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20ZICE4588M

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