

Technical Data Sheet
Ti₃C₂T_x- Titanium Carbide- MXene
Properties

Form : Nanosheet Powder (stack of sheet)
Full Name: Ti₃C₂T_x MXene (few-layer nanoflakes);
few-layered Ti₃C₂T_x MXene;
few-layer MXene Ti₃C₂T_x nanoflakes
CAS Number: 12363-89-2

Preparation: Wet Chemical Etching
Appearance: Black powder

Structure : 2D Flakes

Product Description

Ti₃C₂T_x MXenes (T = O, F, OH, etc.) is a 2D material in which there is a covalent bond between C and Ti.

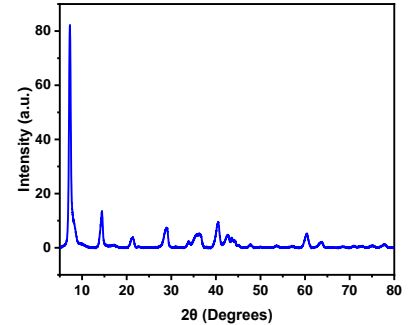
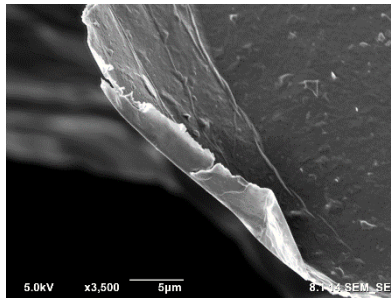
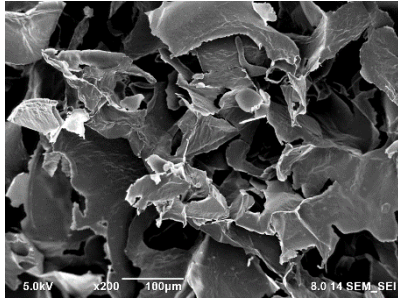
Application areas:

Ti₃C₂T_x is used in energy storage and conversion devices, sensors, wastewater treatment, biomedicine, and electromagnetic interference shielding due to its excellent electrical and thermal conductivity, mechanical properties, and intrinsic photothermal and antibacterial characteristics.

Storage conditions: Keep it sealed with Argon protection in a vented area at room temperature and avoid light. Shelf life is about 3 months.

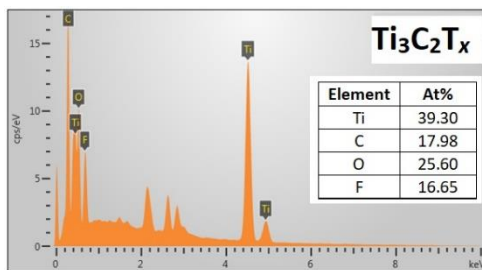
Packaging :

Quality Control



SEM images of Ti₃C₂T_x with different magnification

XRD pattern



Elemental analysis