TECHNICAL DATA SHEET

Technical Data Sheet: MXene Ti3C2 Materials

Product code: 070101

Revision 2026-11

Description

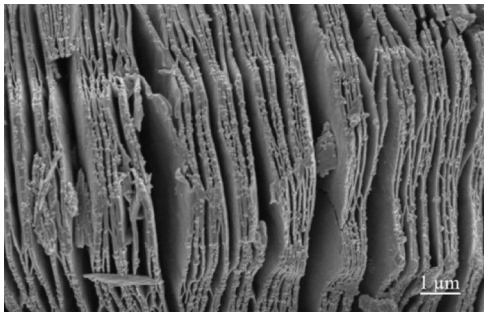
Ti3C2 MXene, a two dimensional transition metal carbide with a graphene-like layered morphology. MXenes are conductive and hydrophilic, and our Ti3C2 is supplied as a black powder that disperses in water and polar organic solvents.

Specifications

Property	Value
Specific surface area	~30 m2/g
Purity	>99 wt%
Electrical conductivity	~1200 S/cm
Appearance	Black powder

Characterization

Representative SEM image of this grade is shown below. A representative Certificate of Analysis is available.



SEM, representative

Applications

Our Ti3C2 MXene is used in energy storage electrodes for lithium-ion batteries and supercapacitors, EMI shielding, sensors, and conductive additives where high conductivity and a hydrophilic surface are needed.

Storage and Handling

Store sealed, dry, at room temperature. Use respiratory protection when handling dry powder; see SDS.

Documentation

Representative data provided. A representative Certificate of Analysis is available. Safety Data Sheet at cheaptubes.com/nanomaterial-msds-safety-sheets.

Application results depend on formulation, equipment and process conditions; confirm with your own trials. Specifications reflect the product page at cheaptubes.com as of November 2026.