

## **Technical Data Sheet**

# ACS Material Ti<sub>3</sub>C<sub>2</sub>Tx MXene (multilayer nanoflakes)

### Table of Contents

- 1 Product Information
- 2 Characterizations
- 3 Application Fields
- 4 Storage

#### **Contact Information:**

Manufacturer: ACS Material, LLC. Address: 959 E Walnut St., Suite 100, Pasadena, CA 91106, USA

Phone: (866)-227-0656

Fax: (781)-518-0284

E-Mail: contact@acsmaterial.com

Revision: 1029019

## 1. Product Information

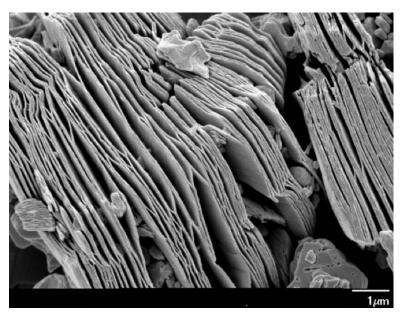
Product Name:	Ti <sub>3</sub> C <sub>2</sub> Tx MXene (multilayer nanoflakes); multilayer Ti <sub>3</sub> C <sub>2</sub> Tx MXene;	
	multilayer MXene Ti <sub>3</sub> C <sub>2</sub> Tx nanoflakes;	
CAS No.:	12316-56-2	
Appearance:	Black Powder	
Content:	Ti <sub>3</sub> C <sub>2</sub>	
Thickness:	100-200 nm	
Purity:	~54-68 wt%	

## 2. Characterizations

Typical content of ACS Material Ti<sub>3</sub>C<sub>2</sub>Tx MXhene (multilayer nanoflakes)

Content	wt%	at%
C	9.98	21.77
О	13.87	22.70
F	16.01	22.07
Al	1.38	1.34
Ti	58.75	32.11

(note: this is for reference only and it may vary from batch to batch)



Typical SEM of ACS Material ACS Material Ti<sub>3</sub>C<sub>2</sub>Tx MXhene (multilayer nanoflakes)

### 3. Application Fields

- a. Nano-adsorption
- b. Lithium-ion battery
- c. Supercapacitor
- d. Biosensors
- e. Lubrications
- f. Ion-sieving and catalysis, etc.

### 4. Storage

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

**Disclaimer:** ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.