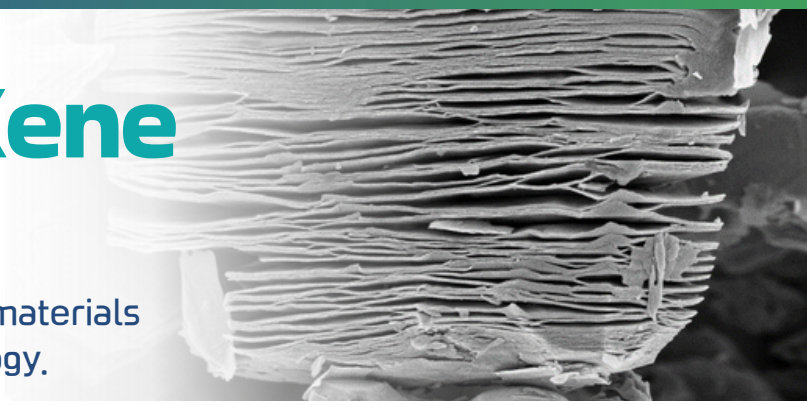
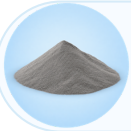
LOTi MAX & MXene

Product Portfolio



LOTi develops and supplies MAX and MXene materials using exclusive titanium deoxidation technology.



Ti Deoxidation Technology →  **Low Oxygen MAX (Ti_3AlC_2)** →  **High Conductivity MXene ($Ti_3C_2T_x$)**

MAX SERIES — MAX Materials for Greater Possibilities

01 Original MAX

Oxygen Content	≤ 8,000 ppm
Electrical Conductivity	~ 9,000 S/cm
Grade	Standard
Purity	≥ 99.9%

02 Low Oxygen MAX

Oxygen Content	≤ 5,000 ppm
Electrical Conductivity	~ 14,000 S/cm
Grade	Premium Low-Oxygen
Purity	≥ 99.9%

MXene SERIES — MXene Materials for Advanced Innovation

03 High Conductivity MXene Ink

Form	Aqueous Dispersion
Applications	Coatings · Printed Electronics · Flexible Electrodes

04 High Conductivity MXene Single-Layer Powder

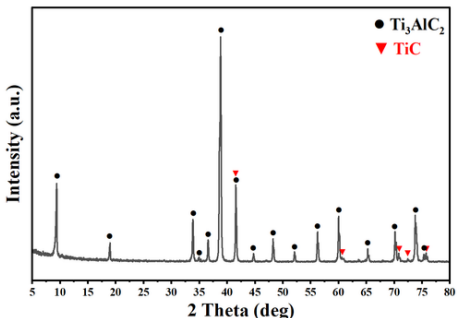
Form	Single-Layer Powder
Applications	Transparent Electrodes · Gas Sensors

05 High Conductivity MXene Multi-Layer Powder

Form	Multi-Layer Powder
Applications	Composites · EMI Shielding · Energy Storage

ANALYTICAL DATA — Material Performance by Analytical Data

XRD Pattern of MAX



Electrical Conductivity Test Report (KTL)

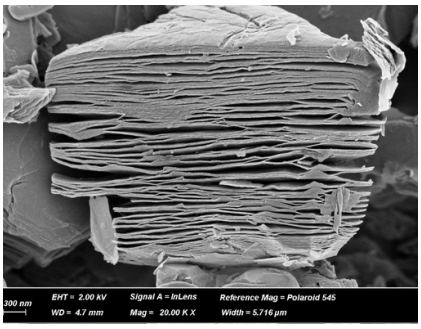
ktl 한국산업기술시험원 Korea Testing Laboratory

Sample	Electrical Conductivity (S/cm)
MXene-3	1.48×10^4
	1.53×10^4
	1.18×10^4
	1.32×10^4
Average	**1.38×10^4**

Four-point probe method

(KTL Customer Support No. : 26-054012-01-1)

SEM Image of Multi-Layer MXene



APPLICATIONS — Next-Generation Materials for Various Industrial Fields

- Transparent Electrode
- Wearable Gas Sensor
- EMI Shielding
- Energy Storage
- Conductive Coating

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