



Merakai LLC DBA MOS Equipment
118 E Ortega St. Santa Barbara, Ca 93101
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Material Safety Data Sheet

Company Contact & Information

Product Name	TitanRF™ Faraday Fabric + Tape
Product SKU	MDFT-TRF & MDFT-(various)
Address	HQ: 118 E Ortega St Santa Barbara, CA 93101 USA
Contact	info@mosequipment.com +1 (805) 318-3212

Composition

Component	CAS No.	Percentage
Polyester	113669-95-7	55-70%
Copper	7440-50-8	15-20%
Nickel	7440-02-0	12-20%

Hazard Identification

Health Hazards and Reactions	Allergic reactions can occur by long-term exposure and direct skin contact.
Environmental Impact	N/A
Physical and Chemical Hazards	N/A
Specific Hazards	Flammable, Highly Conductive
Hazard Classification	N/A



Handling and Storage

Handling	Handle fabric carefully, avoid excessive creasing
	avoid sunlight, steam and oxidant
Storage	23±2°C, 65±5% RH in the temperature around 23±2°C, RH 65±5%
	Keep away from toxic and chemical substances

Purpose & Use

- High shielding (not mid-grade shielding) material for blocking RF signals such as WiFi, cell signals including 5G networks, GPS, Bluetooth, RFID, NFC, and radio signals from low MHz to 40GHz
- EMI, EMR, and EMF shielding
- Polyester fiber, metallic copper, and metallic nickel composition
- Lab tested and certified MIL-STD 188-125 (compliant for high altitude EMP resistance), as well as IEEE 299-2006 (shielding effectiveness standards)
- Surface resistance approximately .5 Ohm/sq
- Lightweight and extremely durable
- High-grade corrosion and tarnish resistance
- Easy to work with - cut, sew, and use like standard fabric in your industrial (military, construction company, IOT developer, etc.), or DIY (consumer) project
- Multiple fabric length sizes available in the drop-down menu - options include Standard (11 sq ft), Pro Construction Kit (66 sq ft), Pro Construction Kit XL20 (220 sq ft), and Pro Construction Kit XL50 (550 sq ft)
- Primary applications include shielding electronic devices from RF signals, defense against EMPs, protection against EMF/EMI radiation, construction for signal-proof rooms or tents, data security, and to enhance digital privacy

Shielding Effectiveness

See reports regarding Compliance testing in line with [MIL-STD 188-125](#) & [IEEE 299-2007](#).