



MULTI-ETCH DATA SHEET

Multi-Etch—the SAFER solution for preparing titanium and other metals
Formulated as a **substitute for hydrofluoric** and nitric acids, Multi-Etch safely optimizes titanium for Cleaner Welding and Brilliant Anodizing and works on multiple metals.

APPLICATIONS

TITANIUM

Anodizing

Preparing titanium with Multi-Etch is a critical first step for achieving deep saturated color. Expect excellent results by etching for 7-10 seconds in Multi-Etch heated to 135-150°F or 3-5 minutes at room temperature (70°F) in double strength solution.

Welding

Multi-Etch effectively strips oxides from titanium, safely preparing surfaces for strong welds, that has found favor in aerospace applications.

Erasing Anodizing

Multi-Etch is also used to erase anodizing.

NIOBIUM

Welding

Multi-Etch effectively prepares niobium for electron beam welding.

Erasing Anodizing

Multi-Etch is also used to erase anodizing.

OTHER METALS

Silver

Multi-Etch removes light fire scale on silver.

Platinum

Multi-Etch removes all steel ions in preparation for welding or soldering platinum.

All Precious Metals

Multi-Etch removes taps and broken drill bits from gold,

Copper

Multi-Etch quickly cleans copper pipes and tubing for soldering.

Meteorites

Multi-Etch brings out the crystal structures in meteorites.



Multi-Etch, LLC

PO Box 9, Clarkdale, AZ 86324

(800) 876-3434 (orders) | (800) 297-6707 (questions)

info@multietch.com | www.multietch.com



INSTRUCTIONS FOR USE

See www.multietch.com for most recent instructions at under the "How to Use" tab.

PHYSICAL PROPERTIES

- Multi-Etch comes as dry, white, granular crystals to be mixed with distilled or DI water.
- Multi-Etch solution is clear and odorless with pH 6.8 when first mixed.
- Active temperature range is 70°F-150°F.

STORAGE

- Store and handle in accordance with all current regulations and standards.
- Store in a well-ventilated, cool, dry area in properly labeled boxes, not above 120°F.
- Do not store in areas exposed to flames, sparks, and other sources of ignition.

SHELF LIFE

Multi-Etch has a shelf life of at least 11 years unmixed, two years once mixed in solution.

SAFETY PRECAUTIONS

- Always use a fume hood indoors or etch outdoors.
- Avoid contact with skin, eyes or clothing. Use NIOSH approved safety goggles, rubber gloves, and protective clothing.
- Refer to SDS at www.multietch.com/safety for complete safety information.

DISPOSAL

- Dispose of spent solution in accordance with local and Federal environmental guidelines and regulations.
- In many areas, spent Multi-Etch solution can be neutralized and safely discharged to the local sewer system with prior approval.

LIABILITY DISCLAIMER

Multi-Etch is intended for use only by persons having appropriate technical skills and experience working safely with potentially dangerous chemical compounds. Each user of Multi-Etch assumes responsibility for inspecting, testing and otherwise determining whether Multi-Etch use is safe and appropriate for the customer's project. Multi-Etch, LLC disclaims all liability for any costs or damages, including personal injury or death, proximately caused by any person's failure to handle, mix, store, use, or dispose of Multi-Etch in accordance with all local and Federal laws and regulation and all safety instructions at www.multietch.com/safety.

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