

Ferric Chloride Solution



RoHS
Compliant

Description

The Ferric Chloride is an etchant solution for printed circuit board and photoengraving processes.

Features

- Photoengraving Grade - 42° Baume
- Ready to use without dilution

Specifications

Properties	Value
Shelf Life	3 Year
Colour	Dark Orange-Brown
Odour	Mild Acidic/Iron
pH	< 1
Percent (wt/wt) of Ferric Chloride (FeCl ₃)	≥ 38.4%
Ferrous Chloride (FeCl ₂)	< 1.5%
Hydrochloric Acid (HCl)	< 0.8%
Insolubles	< 0.5%
Specific Gravity @ 20°C (68°F)	1.4 g/mL
Boiling Point	106°C (222°F)
Freezing Point	0°C (32°F)

Compatibility

Chemical - Ferric chloride reacts strongly with metals.

Storage

Store between 16°C and 27°C (60°F and 80°F) in dry area. Store in plastic container. Do NOT store in metal containers.

Application Instructions

For best results, follow the procedure below. If further directions for etching or making a printed circuit board (PCB), consult the photo fabrication process guide available free from your dealer.

1. Fully immerse copper board in solution.
2. Agitate until etching action is complete.

To speed up etching

Warm the ferric chloride solution between 35°C to 55°C (95°F to 131°F).

ATTENTION! Do NOT heat ferric chloride solution above 55°C (131°F).

NOTE: Dilution is not recommended.

Ferric Chloride Solution



Packaging

Packaging	Net Volume		Net Weight	
	Bottle	945mL	1.99pt	1.32kg

Part Number Table

Description	Part Number
Ferric Chloride Solution, Bottle, 945ml	MC002955

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