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Wet Etching Recipes (Page 1 of 2)

Material to be Etched	Chemicals	Ratio	Comments
Aluminum (Al)	H ₃ PO ₄ : Water : Acetic Acid : HNO ₃	16:2:1:1	PAN Etch; 200 nm/min @ 25 C; 600 nm/min @ 40 C may be used at 25 C but etches faster at a higher temperature
Aluminum (Al)	NaOH : Water	1:1	must be heated to 120 C
Aluminum (Al)	H ₃ PO ₄	---	---
Chromium (Cr)	HCl : Water	3:1	---
Chromium (Cr)	HCl:Glycerin	1:1	---
Copper (Cu)	HNO ₃ : Water	5:1	---
Copper (Cu)	Ammonium Persulphate	---	---
Gold (Au)	KI : I : Water	115 g : 65 g : 100 ml	---
Gold (Au)	HCl : HNO ₃	3:1	Aqua Regia; discard after use
Iron (Fe)	HCl : Water	1:1	---
Iron (Fe)	HNO ₃ : Water	1:1	---
Lead (Pb)	Acetic Acid : H ₂ O ₂	1:1	for dissolving solder connections
Lead (Pb)	Acetic Acid : H ₂ O ₂ : Water	2-2-5	---
Molybdenum (Mo)	HCl : H ₂ O ₂	1:1	---
Molybdenum (Mo)	H ₂ SO ₄ : HNO ₃ : Water	1:1:1	---
Nichrome	H ₂ SO ₄	---	use at 100 C
Nichrome	HCl : HNO ₃ : Water	1:1:3	---
Nickel (Ni)	HCl : HNO ₃	5:1	---
Nickel (Ni)	HF : HNO ₃	1:1	---
Palladium (Pd)	HCl : HNO ₃	3:1	Aqua Regia; discard after use
Platinum (Pt)	HCl : HNO ₃ : Water	3:1:4	use at 95 C
Platinum (Pt)	HCl : HNO ₃	8:1	age for 1 hour; use at 70 C
Polysilicon (Si)	HNO ₃ : Water : HF	50:20:1	remove oxide first; 5-60 nm/min @ 25C
Polysilicon (Si)	HNO ₃ : HF	3:1	remove oxide first; high etch rate: 4.2 micron/min

Reference: Failure and Yield Analysis Handbook, Technology Associates

[<Proceed to Page 2 - Etch Recipes for Silicon to Vanadium \(Alphabetical\)>](#)

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Platinum Etch Recipe

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