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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
Aluminum (Al)	NaOH : Water	1:1	may be used at 25 C bu etches faster at a higher temperature
Aluminum (Al)	H ₃ PO ₄		must be heated to 120 C
Chromium (Cr)	HCI: Water	3:1	
Chromium (Cr)	HCI:G/yoerin	1:1	These Control
Copper (Cu)	HNOs : Water	5:1	0.00
Copper (Cu)	Ammonium Persulphate		(Here:
Gold (Au)	KI:I:Water	115 g : 65 g : 100 ml	
Gold (Au)	HCI: HNO ₃	3:1	Aqua Regia; discard after use
Inon (Fe)	HCI: Water	1:1	man.
Iron (Fe)	HNOs: Water	1:1	1944 C
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	122
Molybdenum (Mo)	HCI : H ₂ O ₂	1:1	
Molybdenum (Mo)	H ₂ SO ₄ : HNO ₃ : Water	30303	5000000
Nichrome	H ₂ SO ₄		use at 100 C
Nichrome	HCI: HNO3: Water	1:1:3	
Nickel (Ni)	HCI: HNO ₃	5:1	10 200 1
Nickel (Ni)	HF: HNO3	1:1	
Palladium (Pd)	HCI: HNO3	3:1	Aqua Regia; discard after use
Platinum (Pt)	HCI: HNO3: Water	3:1:4	use at 95 C
Platinum (Pt)	HCI: HNO ₃	8:1	age for 1 hour; use at 70 C
Polysilicon (Si)	HNO ₃ : Water : HF	50:20:1	remove oxide first; 540 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

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Platinum Etch Recipe

ML Morrison



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