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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 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	6:1	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

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Platinum Etch Recipe

Jin-Ying Zhang



Platinum Etch Recipe:

Whispering the Secrets of Language: An Mental Quest through **Platinum Etch Recipe**

In a digitally-driven earth wherever displays reign great and immediate interaction drowns out the subtleties of language, the profound secrets and emotional nuances concealed within words frequently go unheard. However, nestled within the pages of **Platinum Etch Recipe** a interesting literary treasure sporting with organic feelings, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, this enchanting opus encourages viewers on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within ab muscles fabric of each word. Within the emotional depths of the moving review, we will embark upon a heartfelt exploration of the book is core styles, dissect its interesting writing model, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

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