

PROCESS/PRODUCT CROSS REFERENCE

TYPICAL SEMICONDUCTOR PROCESS STEPS**										
APPLICATIONS →	Wafer Grinding	Nitride Etch, Metallic Etch, Poly Silicon, PRM	Quick Dump Rinse (QDR)	Strip Photoresist, Piranha Bath, SPM	Quick Dump Rinse (QDR)	SC1, RCA	Quick Dump Rinse (QDR)	SC2	HF	PRODUCTS ↓
	Water, 24°C to 34°C	Phosphoric Acid @ 170°C	Hot DI Water	Sulfuric Acid & Hydrogen Peroxide @ 110°C	Hot DI Water	Ammonium Hydroxide & Hydrogen Peroxide @ 70°C	Hot DI Water	Hydrochloric Acid & Hydrogen Peroxide @ 70°C	Hydrofluoric Acid @ 80°C	
CHEMICAL INLINE HEATERS:										
TIH	✓	✓	✓	✓	✓	✓	✓	✓	✓	
HCO-IR	✓	✓	✓	✓	✓	✓	✓	✓	✓	
DI WATER HEATERS:										
Lufran	✓		✓	✓	✓	✓	✓	✓	✓	
H ₂ O ⁺ SHOT	✓		✓	✓	✓	✓	✓	✓	✓	
Tytan	✓									
CHEMICAL BATH SYSTEMS:										
SB (Super Bowl)				✓		✓		✓		
NE (Nitran)		✓								
ET (Etch Tech)		✓		✓		✓		✓		
FE (Filtran)									✓	
CQDR			✓		✓		✓			
HEAT EXCHANGERS:										
TherMax ²	✓									
XCK	✓								✓	
HIGH TEMPERATURE FILTERS:										
LTFH		✓		✓		✓		✓	✓	
NITROGEN HEATERS:										
NMP			✓		✓		✓		✓	

** Solvents, KOH, BOE and other processes listed on reverse side.



7010 Lindsay Dr. • Mentor, OH 44060 U.S.A. • Phone: (1)440-974-1300 • Fax: (1)440-974-9561
 www.process-technology.com • Email: info@process-technology.com

MISCELLANEOUS PROCESSES*

PRODUCTS ↓	Potassium Hydroxide, KOH Also TMAH and NaOH	Buffered Oxide Etch, BOE HF with Ammonium Fluoride, 25°C	Phosphoric/Nitric Acid 160°-185°C	Aluminum Etch, PAN, CAN Phosphoric, Acetic, Nitric Acids with DI Water	DI O ₃ DI Water with Ozone (sometimes heated)	Solvents: EKC265, EKC270, EKC8730, ACT690C, ST28, ST26, MEK	Electroless Plating Nickel, Gold or Copper	Palladium Plating	Box Washing Rinse Water (low purity)
CHEMICAL INLINE HEATERS:									
TIH	✓	✓	✓	✓	✓		✓	✓	✓
HCO-IR		✓							
DI WATER HEATERS:									
Lufran					✓				✓
H ₂ O T SHOT					✓				✓
Tytan									✓
CHEMICAL BATH SYSTEMS:									
SB (Super Bowl)	✓	✓			✓				
RB (Reflux Bath)	✓								
NE (Nitrax)			✓						
ET (Etch Tech)			✓	✓					
FE (Filtrax)		✓		✓					
HEAT EXCHANGERS:									
TherMax ²						✓			
XCK			✓			✓			
SOLVENT HEATERS:									
SG						✓			
HIGH TEMPERATURE FILTERS:									
LTFH	✓		✓	✓	✓				

* Typical semiconductor process steps listed on reverse side.



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