Tool ID: 302
Tool Location: 103

Equipment Information Sheet

Arradiance ALD Gemstar-6

Manager: Jeremy Clark 607-254-6487
Backup: Philip Schneider 607-254-4931

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

SAFETY

- Uses highly toxic & reactive / pyrophoric precurses for film deposition. Materials are monitored by TGMCS.

USAGE RESTRICTIONS
SCHEDULING/SIGN-UP RESTRICTIONS
MATERIALS COMPATIBILITY CATEGORY

Minimum Tool Time: 15 minutes

Tool Category 5: Class A and B Metals and Compounds

Allowed	Not Allowed
Tool category 1/1E, 2, 3, and 4 materials	
Silicon Based Substrates and Films	
III/V compound Semiconductors	
Glass Substrates	
PECVD and ALD Films	
Cured organics and baked Photoresist	
CNF Class A, B, and Refractory metals	
Exposed Gold, Silver, Copper	
Alkali and Alkaline Compounds	
Organic/Biology Molecules prepared-w/salt buffers	
High Vapor Pressure Materials (Mg, Ca, Zn)*	* Some tool restrictions on high vapor pressure materials may apply
Soft organic materials	

High Vapor Pressure Metals and Compounds are materials that have a vapor pressure above 1e-6 Torr at 400 C.

Additional Material Restrictions and Exceptions

- No films thicker than 50nm or 500 loops without permission of the tool manager
- Pieces, 100mm, and 150mm wafers allowed
- Polymers must be fully cured at least 25C above the deposition temperature

Last Updated: 04/30/2026