R. D. Mathis Company
Source Selection Guide

Evaporation Source Selection Guide

Evaporation Source Type	Process Conditions: Low Power <100amps	Med. Power 100-250 amps	High Power >250 amps	Low temp Materials <1,000°C	High Temp Materials > 1,000°C	Corrosive Materials	Low Volume Coating <1,000A°	Medium Volume Coating 1,000A° - 5,000A°	High Volume Coating >5,000A°	Reduce Particulates from Spitting
Tungsten Filament	■			■	■		■			
Tungsten Point Source	■			■	■		■			
Tungsten Basket	■			■	■		■			
Alumina Coated Basket	■			■	■	■	■	■		
Tungsten Basket Heater	■			■			■	■		
Shielded Crucible Heater			■	■	■	■	■	■	■	
Evaporation Boat		■	■	■	■	■	■	■		
Folded Boat		■	■	■	■	■	■	■	■	
Alumina Coated Boat		■	■	■	■	■	■	■		
Baffled Box Sources			■	■	■		■	■	■	■
Shielded Baffled Box Sources			■	■	■		■	■	■	■
Micro-Electronic Sources	■			■	■		■			
Chrome Plated Tungsten Rods	■				■		■	■		■

Rev. 11/13/2008

This source selection guide is provided to help you determine which evaporation source type might fit you needs the best.

How to use the Guide:

1) Determine how much current your system power supply is capable of safely producing.
2) Establish the vapor temperature of the material(s) you plan on evaporating.
3) Estimate the coating thickness you will attempting.

With the information shown above, you can select which part types will best meet you needs.

The actual power required for each part number can be found on our website by clicking on the part number.
As always, the R. D. Mathis company offers no charge technical support if you need further assistance in choosing the right evaporation source to make your thin film coating process a success.