

# DENTON VACUUM

Enabling Innovation

Gencoa has developed an online software application to calculate deposition rates for all sputter processes and geometries—planar and rotatable targets, static or in-line moving substrates, pure, compound or reactive layers.

The application includes a material library with data for common sputtered material categories: metals, compounds and alloys.

The application is free and online. Click the link below to access.

<http://www.gencoa.com/sputter-process-calculation/>

thin film components | better magnetic design | integrated solutions | OEM support | process specific

**gencoa-online**      **Universal sputter process calculator**

Note: For Internet Explorer users the enter key does not update the data, please click any mouse button instead.

Magnetics		Coating Rate		
<input checked="" type="radio"/> Rectangular <input type="radio"/> Circular <input type="radio"/> Rotatable		Worst Case (1 - Factor)	Average Case (1.25 - Factor)	Best Case (1.5 - Factor)
Target Width (cm) 0	Target Length (cm) 0	Approx. Static Coating Rate (nm/min) 0.0	0.0	0.0
Target Thickness (mm) 0	Target Area (cm2)	Coating Thickness (nm) 0.0	0.0	0.0
		Dynamic Coating Rate (nm/min) 0.0	0.0	0.0
		No. of Magnetrons (1 side only)		

Materials		Standard Magnetics	
<input checked="" type="radio"/> Material 1 <input type="radio"/> Material 2 <input type="radio"/> Material 3 <input type="radio"/> Material 4 <input type="radio"/> Misc		Target Use (%)	25
Material Type: All <input checked="" type="radio"/> Pure <input type="radio"/> Compound <input type="radio"/> Reactive		Target Lifetime (continuous hours)	0.0
Material Name: <input type="text"/>		Target Lifetime (kilowatt hours)	0.0
Relative Sputter Rate <input type="text"/>		High Yield Magnetics	
Power Value <input type="text"/>		Target Use (%)	45
Power Type <input type="radio"/> DC <input type="radio"/> RF		Target Lifetime (continuous hours)	0.0
Total Power <input type="text"/>		Target Lifetime (kilowatt hours)	0.0
Power Density (W/cm2) <input type="text"/>		FFE Magnetics	

Substrates		Rotatable Magnetics	
<input checked="" type="radio"/> Substrate 1 <input type="radio"/> Substrate 2 <input type="radio"/> Substrate 3 <input type="radio"/> Substrate 4		Target Use (%)	60
Target to Substrate Distance (cm) <input type="text"/>		Target Lifetime (continuous hours)	0.0
Substrate Speed (cm/min) <input type="text"/>		Target Lifetime (kilowatt hours)	0.0
Number of Passes <input type="text"/>			
Substrate Direction <input checked="" type="radio"/> Across Target Width <input type="radio"/> Across Target Length			

Coating Thickness and Target Material	
Coating Thickness for Layer (nm)	0
Target Material Left Unsputtered (mm)	0

