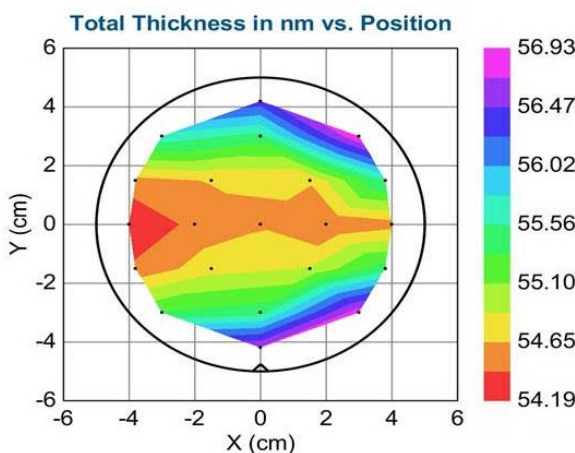




Item & Description	Price
Non-recurring Engineering Set Up Cost Including equipment set up, and chemical, cleaning set up (at least half a day of labor)	\$5,000
Al ₂ O ₃ coating (10nm-50 nm) each wafer	\$1100
Al ₂ O ₃ coating (50nm-100 nm) each wafer	\$1500
Al ₂ O ₃ coating (100nm-200 nm) each wafer	\$2100
TiO ₂ coating (+400 add-on on top of Al ₂ O ₃)	\$2,500
TiO ₂ coating (+500 add-on on top of Al ₂ O ₃)	\$12,500
PECVD coating (Oxide, Nitride) each wafer	\$240
Special Processed Coating (Spray, Plasma)	Please contact Cactus Engineering

Note: All services are custom and it varies from customer to customer. Most services involve process development so the prices quoted will vary from the prices listed here. An example below.



ALD Film	Cycles	Ellipsomet	Elips Pl	Elips Wavelength (nm)	Sca	Elips Angle	Model	MSE	Center Thk (Å)	Avg THk (Å)	Index @632.8nm (n)	Absorption @632.8nm (k)
500A HFO2 (ALD)	530	M-2000	Cauchy	370-1689		65 75	Cauchy	1.786	546.10	552.50	2.0631	
500A HFO2 (ALD)	530	M-2000	Tauc-Lorer	370-1689		65 75	Cauchy	2.287	543.10	564.10	2.06281	0.00000