

# Evaporation Materials

Vital Thin Film Materials offers a wide range of high-quality evaporative materials with a tailored solution for Display, Photovoltaic, Semiconductor, Optics, LED, Data Storage and Glass applications.

As a uniquely positioned supplier, in-house recycling and refining offers VTFM the ability to maintain control over raw materials utilized in downstream production. Material characteristics (impurities, density, surface contamination, etc.) critical to the PVD production process are closely monitored, recorded and tracked to ensure optimized melting properties both within lot and from lot-to-lot, leading to improved yields of complex layer stacks. VTFMs conflict-free evaporative materials are offered in a range of purities, geometries and sizes for R&D prototyping to production volumes.

VTFMs production resources are equally complimented by an R&D team available to assist customers with process improvements, including new material compositions and geometries or depositing layer stacks within our own applications laboratory.

HP Metal Materials	Al, Cr, Cu, Ge, Hf, In, Ni, Si, Sn, Ti
Oxides	$\text{Al}_2\text{O}_3$ , $\text{HfO}_2$ , ITO, $\text{MgO}$ , $\text{Nb}_2\text{O}_5$ , $\text{SiO}_2$ , $\text{Ta}_2\text{O}_5$ , $\text{TiO}$ , $\text{TiO}_2$ , $\text{Ti}_3\text{O}_5$ , $\text{Y}_2\text{O}$ , $\text{ZrO}_2$
Selenides	$\text{ZnSe}$
Sulfide	$\text{ZnS}$
Fluoride	$\text{BaF}_2$ , $\text{CeF}_3$ , $\text{MgF}_2$ , $\text{YF}_3$ , $\text{YbF}_3$

