REACTIVE DEPOSITION
Enabling Enhanced Thin Film Performance

Only after a closer look at the techniques and characteristics of various fabrication methods of PVD materials does it become clear that even highly refined evaporation and sputtering materials continue to evolve as new markets and challenges open. Reactive processes are utilized from manufacture through deposition in order to meet the needs of applications spanning the DUV to LWIR wavelengths. Focusing for a moment on LN-NIR oxides materials, these range from single crystal boules/granules to polycrystalline wrought metals and consolidated or sprayed metals. Materion invests in the capital equipment and technical talent to keep abreast of the latest deposition technologies and offers a broad range of thin film deposition materials.

Pure metals and alloys are often cast and wrought into plate to fabricate targets for sputtering.

Pure fine metal and alloy powders are consolidated into billets or near net-shape plates to be finished as targets for sputtering.