Meet us in Tokyo and Santa Clara!

Strong metals for the LED industry at the Lighting Japan and the Strategies in Light (USA).

Molybdenum, tungsten and our other high-performance metals and composite materials demonstrate peak performance in the electronic industry. With numerous products for the LED production and thermal management components we contribute to an efficient lighting.

Get to know our material-experts at the Lighting Japan in Tokyo and at the Strategies in Light (SIL) in Santa Clara (California/USA). Our product highlights:

Plansee delivers crucibles of molybdenum and tungsten for the sapphire production. Due to the exceptionally corrosion and heat resistance, the crucibles withstand aggressive sapphire melts and temperatures above 2 000 °C for a long period of time. With decades of experience in powder metallurgy and our own production and refinement of raw materials, we produce crucibles with the highest level of purity and a homogeneous microstructure making them defect-free.

The semiconductor layers of the LED can be applied using the epitaxially growth methods MOCVD (Metal Organic Chemical Vapor Deposition) or MBE (Molecular Beam Epitaxy) onto a substrate material. For these process reactors, we provide temperature-resistant
components made of molybdenum, tungsten, tantalum, and specially engineered alloys to equipmen manufacturers and end-users.

For heat dissipation and as a base in LED chips, Plansee delivers wafers of pure molybdenum and molybdenum-copper composite materials. These are bonded at up to 800 °C onto the LED structure (semiconductor layers). According to your requirements for coefficient of thermal expansion (CTE) and thermal conductivity (TC), we offer customized material solutions.

Plansee has developed base plates and heat spreaders made of high-performance materials based on tungsten, molybdenum, MoCu, WCu and Cu-MoCu-Cu laminates. With coatings of nickel, gold, silver, ruthenium and other materials, our base plates can be well customized for the increasing requirements of LED and laser diode packages.

Let us know what our metals can do for you. Our Plansee Team is looking forward to your visit!

Lighting Japan
Tokio Big Sight; Japan
Stand: West L-6-3

Strategies in Light (SIL)
7. – 9. Februar 2012
Convention Center; Santa Clara/California
Stand: # 935