

Instructions for handling and storage of Phosphor-Coatings

General advice:

The characteristics of the phosphor coatings require a professional treatment under defined conditions. To ensure a long lifespan below mentioned advice must be followed without fail. The coating will be destroyed irreversibly by non-compliance.

Please do not hesitate to contact us in case of any doubt or queries.

Note on safety:

Please pay attention to the enclosed material safety data sheet(s).

Handling of the unprotected coatings requires that content of the material safety data sheet(s) is known and understood.

Before unpacking and handling the coating, please forward the material safety data sheet(s) to the responsible authority of your organization (this is usually the occupational safety specialist).

Handling:

Phosphor coatings are suitable for a variety of applications. Among others, these are electron-, x-ray- and UV-applications. Especially in electron applications, high electric field strengths may structurally damage the coating. In general, our coatings are designed for field strength of up to 6kV/mm. In UV or x-ray applications, the dosage is the determining factor for a degradation of the coating. In this case, a structural damage is not to be expected, but browning may occur over the lifetime, affecting the efficiency.

Avoid unconditionally:

- any contamination, in case of contamination please contact us
- any mechanical stress
- any even slight contact – e. g. by fingers or any other object
- handling outside of cleanrooms (ISO cleanroom classification 8 or better)

Storage:

The container in which the substrate is delivered is only in particular circumstances suitable for long-time storage. In case of doubt please contact us.

We recommend storage in darkness at moderate temperature (+10...+90°C):

- under vacuum conditions or under dry nitrogen
- in a diffusion resistant container
- Pay attention to the cleanliness of the container: it must not be contaminated by dust or particles

Warranty is limited to liability for correct mechanical construction with the defined materials and operation with the specified maximum field strength under the defined maximum pressure in this field free from particles.