



## Product Sheet L-P1-05-Ce

### GENERAL

|                  |                                     |
|------------------|-------------------------------------|
| Name             | Lanthan gadolinium phosphate cerium |
| Chemical formula | (La,Gd)PO <sub>4</sub> :Ce          |
| Application      | UV-A and -B lamps                   |
| Packaging        | on request                          |

### OPTICAL PROPERTIES

|   |                  |
|---|------------------|
| Excitation maxima @                     | 254 nm (4.88 eV) |
| Emission maximum @ 254 nm exc.          | 320 nm (3.88 eV) |
| Centroid wavelength                     | 335 nm (3.70 eV) |
| Full width @ half emission maximum      | 40 nm            |
| Lumen equivalent                        | -                |
| CIE1931 chromaticity coordinates (x, y) | -                |
| Band edge of host lattice               | 155 nm (8.00 eV) |
| Reflection @ 254 nm                     | 10%              |

### PHYSICAL PROPERTIES

|                               |                       |
|-------------------------------|-----------------------|
| Body colour                   | White                 |
| Density                       | 5.5 g/cm <sup>3</sup> |
| Particle size d <sub>50</sub> | 5 μm                  |
| Mineral type                  | Monazite              |
| Crystal system                | Monoclinic            |
| Space group (#)               | P 1 21/n 1 (#14)      |

