

Technical Specification

Product name: YAG:Ce

Product number: HYP-182~185

YAG:Ce

Cerium-doped yttrium aluminum garnet (YAG:Ce) powder is commonly used as a light converting phosphor in white light-emitting diodes (LEDs). YAG:Ce emits yellow light when excited by blue, ultraviolet, or x-ray light. It is used as a coating on a high-brightness blue LED to convert part of the blue light into yellow, which then appears as white.

YAG:Ce is also used in some mercury-vapor lamps and cathode ray tubes (CRT) as one of the phosphors. When excited by electrons, it has virtually no afterglow (70 ns decay time).

Product name: **Cerium-doped yttrium aluminum garnet (YAG:Ce)**

Product number: **HYP-182, HYP-183, HYP-184, HYP-185**

Chemical formula: **$Y_3Al_5O_{12}:Ce$**

Molecular weight: **595.2**

Properties:

Emission wavelength: **545nm (Greenish yellow)**

Decay time: **70 ns**

Melting point: **>1950 °C**

Medium particle size (d_{50}): **5±1 μm**

Body color: **Yellow**

Odor: **Odorless**

Supplier:

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