



Phosphor Information Leaflet

GENERAL

Name	Yttrium oxide ytterbium
Chemical formula	Y ₂ O ₃ :Yb ³⁺
Application areas	Laser gain media

OPTICAL PROPERTIES

Excitation maxima @	882 nm (1.41 eV), 896 nm (1.38 eV)
Emission maximum @ 883 nm exc.	978 nm (1.27 eV), 1032 nm (1.20 eV), 1076 nm (1.15 eV)
Centroid wavelength	1015 nm (1.22 eV)
Full width @ half emission maximum	Line
Lumen equivalent	-
CIE1931 chromaticity coordinates (x, y)	-

PHYSICAL PROPERTIES

Body colour	Greyish-white
Density	5.03 g/cm ³
Refractive index (at λ)	1.88 (500 nm)
Mineral type	Bixbyite
Crystal system	Cubic
Space group (#)	I a-3 (206)

