

## Specification Sheet

### Yttrium Aluminate Garnet

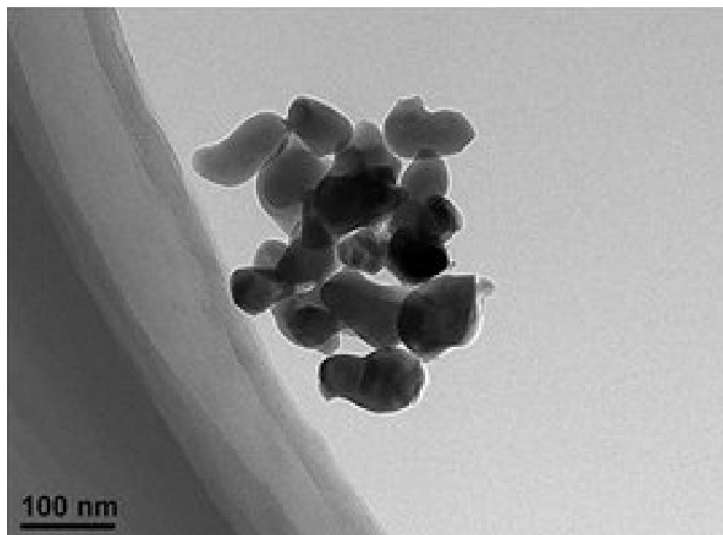
(Cerium Doped, Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> /Ce, Purity: 99.5%, APS: 30nm)

Stock No: NS6130-02-234, CAS: 12253-70-2

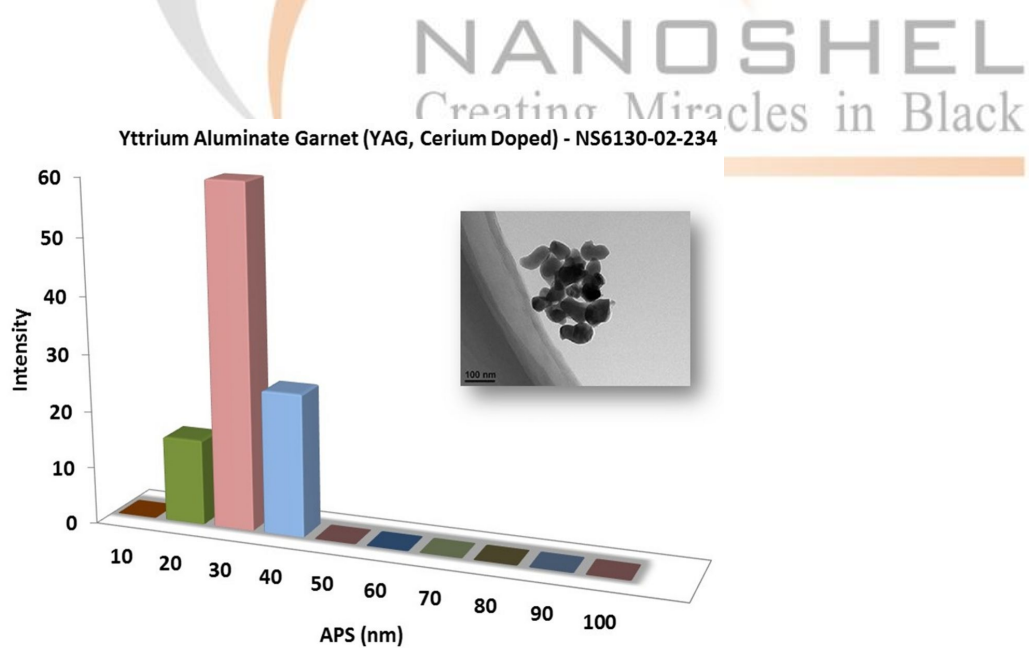
<b>Product</b>	:	<b>Yttrium Aluminate Garnet</b>
Stock No	:	NS6130-02-234
Purity	:	99.5 %
APS	:	30 nm
Molecular Formula	:	Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> /Ce
Doping	:	Cerium – < 0.5%
Form	:	Powder
Color	:	Black
Density	:	4.55 g/cm <sup>3</sup>
Melting Point	:	1970 °C
Hardness	:	8.5Mohs
Thermal expansion	:	0.8-0.9 x 10 <sup>-5</sup> /K
Tensile Strength	:	2 Gpa
Young's modulus	:	335 Gpa
<b>Main Inspect Verifier</b>	:	<b>Manager QC</b>

**Note:** Product Specification are subject to amendment and may change over time

## Characterization of Yttrium Aluminate Garnet



Yttrium Aluminate Garnet



YAG Nanopowder