

NS6130-02-234

YTTRIUM ALUMINATE

Garnet

Quick Facts

Product	:	Yttrium Aluminate Garnet
Stock No	:	NS6130-02-234
Purity	:	99.5%
Molecular Formula	:	$Y_3Al_5O_{12}/Ce$
Form	:	Powder

Purity
99.5%

Technical Specification

Molecular Weight	Density	Melting Point	APS
733.73g/mol	4.55 g/cm ³	1970°C	30nm

Yttrium Aluminate garnet (YAG, $Y_3Al_5O_{12}$) Monocrystals. Yttrium Aluminate garnet (YAG) (chemical composition $Y_3Al_5O_{12}$) is a well-known host material for obtaining highly efficient luminescent materials. Their good chemical and physical properties: the unique cubic structure of garnet and subsequent optically isotropic properties as well as excellent chemical stability at elevated temperature. Yttrium Aluminate oxide powder is known for its high thermal stability and insolubility hence it is most suited for ceramic, glass and optic applications. Ceramic structures made using this powder are used in making simple clay bowls to complex electronic components.

- ✓ Used in building structural & aerospace
- ✓ Active optical filters
- ✓ Cathode materials for alkaline batteries
- ✓ Pigments for ceramics and glasses
- ✓ Temperature sensors
- ✓ Water treatment and fuel cell applications
- ✓ Used for manufacturing a down converter in white light LEDs.
- ✓ Automotive rear-view mirrors with adjustable reflectance



$Y_3Al_5O_{12}/Ce$
APS 30nm



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