

YTTRIUM ALUMINIUM NEODYMIUM Doped

Yttrium Aluminium Neodymium (Y3Al5O12) is doped with Nd³⁺ (Neodymium ion, with serves purpose of active medium. Laser is different from an ordinary light. It has various unique properties such as coherence, monochromacity, directionality and high intensity. Because of the properties, lasers are used in various application:

- These lasers are widely used for cutting, drilling, welding and surface hardening of the industrial products.
- It is also used in haul communication
- It is used in the study of inertial confinement fusion.
- It is used in medical field for cataract surgery to treat gastrointestinal bleeding and gall baldder surgery



Quick Facts

Product	:	Yttrium Aluminium Neodymium Doped
Stock No	:	NS6130-10-1099
CAS	:	12005-21-9
Form	:	Powder
Purity	:	99%
APS	:	>300nm

Technical Specification

Molecular Formula	:	Y3Al5O12
Molecular Weight	:	596.7g/mol
Density	:	4.55 g/cm ³
Melting Point	:	1970°C

Applications

- ✓ Military applications to find the desired target
- ✓ Medical field for the surgical purpose
- ✓ Welding and cutting of steel and in communication system also.
- ✓ Lasers in science and technology

APS
>300nm

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20ZICE4589C



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