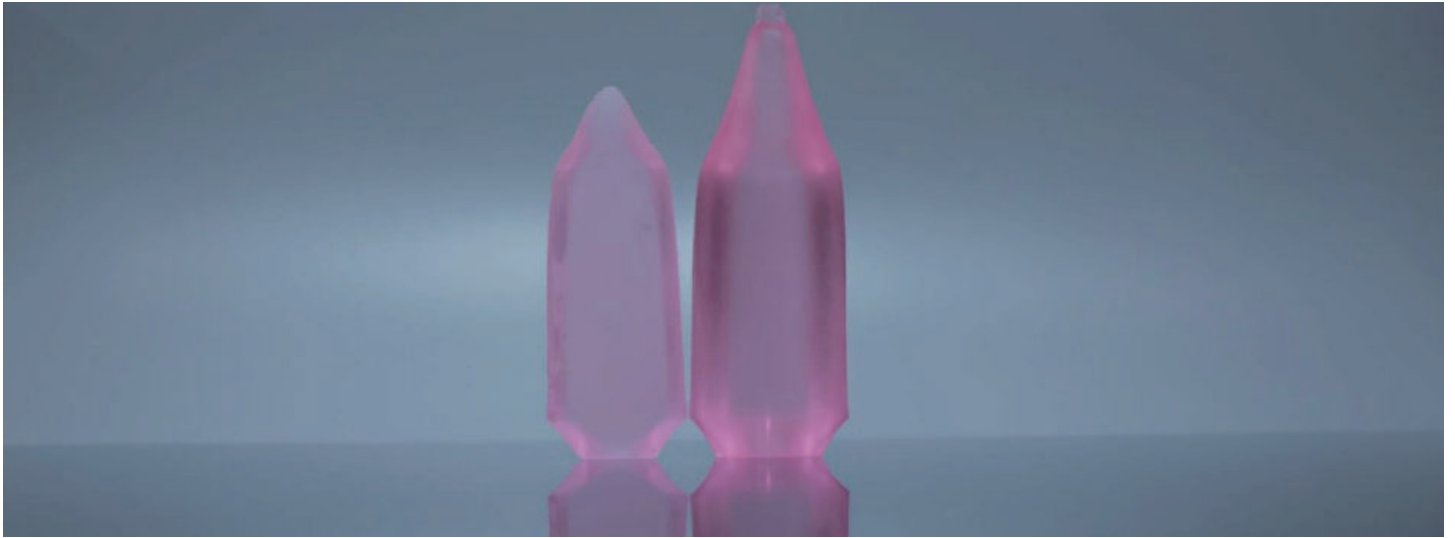


Er:YAG



DESCRIPTION

Er:YAG crystal product, also known as neodymium doped yttrium aluminum garnet crystal, with the chemical formula of $\text{Er:Y}_3\text{Al}_5\text{O}_{12}$, is a laser crystal with good comprehensive performance.

Er:YAG crystals are widely used in plastic surgery and dentistry. Er:YAG laser crystal can excite 2940nm laser for medical and dental use. Combined with different output wavelengths and Er:YAG, it is an excellent laser with a wavelength of 2.94 μm laser crystal.

This wavelength is the most easily absorbed by water and hydroxyapatite among all the existing wavelengths, and is considered as a high surface cutting laser. It is a well-known medical application material. The emission wavelength of Er:YAG is 2940nm, which is located at the water absorption peak and can be strongly absorbed by water molecules. The product has the characteristics of high doping concentration, excellent optical quality, excellent thermal and optical properties, high output and damage threshold. It is used in glaucoma surgery, 2940nm laser penetrating keratoplasty and other fields.

At present, the projects we participate in include laser blood sampling instrument, which adopts the coating on both sides of Er:YAG rod and the structure of xenon lamp end pump. Er:YAG laser wavelength is an excellent choice to improve a variety of skin conditions and aging, including poor pigmentation, photochemical light damage, solar elasticity, acne and traumatic scar formation, fine lines and mild to moderate wrinkle, rough skin texture and skin relaxation.

FEATURES

- Low scattering loss
- Excellent optical quality
- High concentrations of doping
- The energy level structure of rich High output and damage threshold

APPLICATIONS

- 1600 nm laser used for optical communication
- 2940 nm laser application in glaucoma surgery
- 2940 nm laser application in vitreous retinal surgery
- 2940 nm laser penetrating keratoplasty
- 2940 nm laser application in cataract surgery



Er:YAG

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Er:YAG

SPECTRA

