## **Undoped YAP crystals**

YAP with large density, high mechanical strength, stable chemical properties, not soluble in organic acid, alkali resistance, and has higher thermal conductivity and thermal diffusivity. YAP is a ideal laser substrate crystal.



Basic properties	
Formula	Y3AI2O12
Molecular weight	593.7
Structure	cubic
Mohs hardness	8-8.5
Melting point	1950℃
Density	4.55g/cm3
Thermal conductivity	0.14W/cmK
Special heat	88.8J/gK
Thermal diffusivity	0.050cm2/s
Expansion coefficient	6.9×10-6/0C
Refractive index	1.823
Color	Colorless