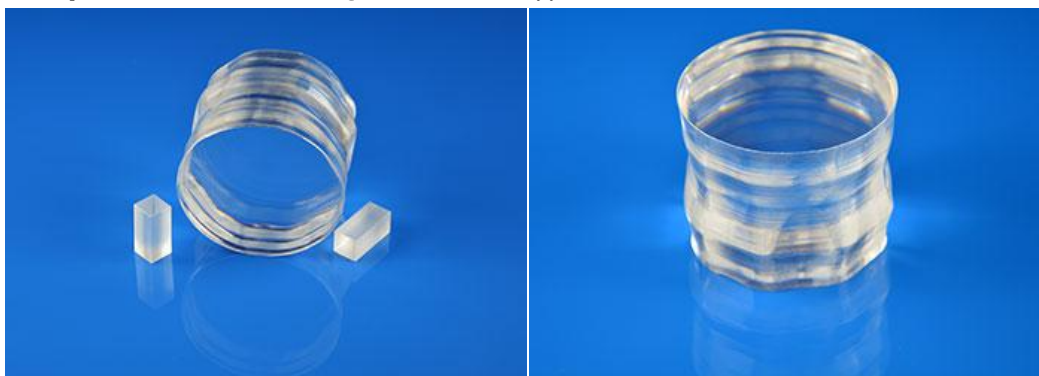


TeO₂ Crystals for AO Q-switches

- **Growth direction:** <100>, <110>, <111>
- **Diameter:** 35-50mm
- **Length:** 40-60mm

Tellurium Dioxide, or TeO₂ are widely used as acousto-optic modulators because of their high acousto-optic figure of merit. Hangzhou Shalom Electro-optics Technology Co., Ltd. supplies the whole **TeO₂ crystals** boules for the AO Q-switch of laser applications.



Basic Properties

Basic properties	
Crystal Structure	Tetragonal
Point Group	422
Lattice Parameter (nm)	a 0.4810 c 0.7613
Density	5.99 g/cm ³
Melting Point	730°C
Mohs Hardness	4.5
Transparency Range (nm)	350 ~ 500
Gradient of Refractive Index	≤ 5
Refractive Index	n _o = 2.260 n ₃ = 2.142
Transmittivity	70%@632.8nm
Phase Velocity (m/s)	616
Photo-elastic Coefficient	P ₁₁ =0.074 P ₁₃ =0.340 P ₃₁ =0.091 P ₃₃ =0.240
Figure of Merit (10-18S ³)/g	M ₂ 793