

磷酸二氢铵 (ADP) 是KDP型晶体家族中的一员，作为大尺寸晶体应用于人们的生产实践中由来已久。由于其具有激光倍频效应、电光效应、压电效应等多种特殊功能，所以关于ADP晶体的研究应用一直为人们所关注。

Ammonium dihydrogen phosphate is a member of the KDP family and has been widely used as a large-sized crystal in people's production practice for a long time. Because of its many special functions such as laser frequency doubling effect, electro-optic effect, piezoelectric effect, etc., the application of glasses for ADP crystals has been concerned.

主要特点 Features

- 性能优良的非线性光学晶体

High performance nonlinear optical crystal

- 高效激光倍频效应

High efficiency laser frequency doubling effect

- X 射线分光效应

X-ray spectroscopic effect

- 光电效应

Photoelectric effect

- 压电效应

Piezoelectric effect

- 易于长成大尺寸晶体

Easy to grow into large size crystals

- 易于长成大尺寸高质量晶体

Easy to grow into large size high quality crystals

应用领域 Applications

- 制作光学原件

Making optical components

- 激光器上的频波发生器

Frequency generator on the laser

- Q 开关

Q-switch



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性能参数:

Flatness	$\lambda/8$ at 633nm
Parallelism	≤ 20 arcsec
Wavefront Distortion	$\lambda/8$ at 633nm
Surface Quality	20-10
Perpendicularity	≤ 5 arcmin
Angle tolerance	$\leq \pm 0.25^\circ$
Dimension tolerance	± 0.1 mm
ClearAperture	90% of central area
Chamfer	≤ 0.2 mmx 45°
Chip	≤ 0.1 mm
Damage Threshold	1GW/cm ² 1064nm 10ns 10Hz for DKDP