GROUP VELOCITY DELAY COMPENSATION WAVEPLATES

Compensation plates are made of calcite. Plates are available with different orientation for different Group Velocity Delay compensation – starting from tens of femtosecond up to tens of picosecond delay compensation.

Standard GVD compensation plates are adjusted for required compensation by angular tuning changing the angle of incidence. Suggested AOI is -5 to +5 deg, however they also can operate at larger AOI.

Standard plates are made of 16×14 mm aperture, clear aperture dia 12 mm and mounted in to 1" ring holder. The optical axis is at special orientation – non parallel to faces of plate.

AR coatings for custom wavelengths are also available.

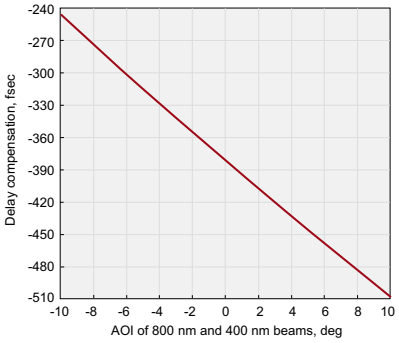
SPECIFICATIONS

Material	Natural Calcite
Clear aperture	Ø12 mm
Ring mount outer diameter	25.4 +0.0 / -0.12 mm
Surface quality	40-20 scratch & dig (MIL-PRF-13830B)
Wavefront distortion	λ/4@ 633 nm
Parallelism	<3 arc min
AR coating	R<0.5% 760-840 nm and R<1% at 380-420 nm

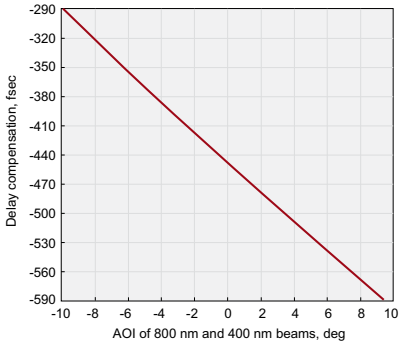
Standard Calcite plates for delay compensation between 800 nm ("o" polarization) and 400 nm ("e" polarization) pulses

Code	Delay compensation range*	Coatings	Price, EUR
225-2113	310 – 450 fsec	BBAR @ 800+400 nm	470
225-2114	370 – 520 fsec	BBAR @ 800+400 nm	470
225-2115	440 – 630 fsec	BBAR @ 800+400 nm	470

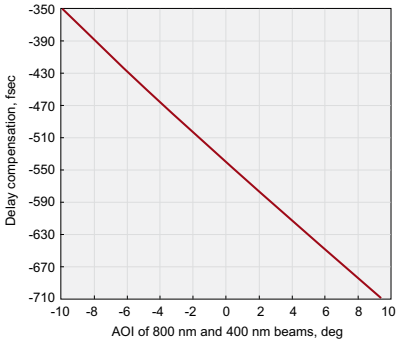
**GVD compensation range at Angle Of Incidence from -5° to +5°.*



225-2113.



225-2114.



225-2115.

Group velocity delay between 800 nm and 400 nm pulses in compensation plates at different angle of incidence. 400 nm pulse („e" pol) is faster than 800 nm pulse („o" pol).

RELATED PRODUCTS

Thin BBO Crystals for SHG and THG of Ti:Sapphire laser wavelengths

See pages 5.25

Femtokits for THG of Femtosecond Ti:Sapphire Lasers

See page 5.28

Positioning Mount 840-0199 for Nonlinear Crystal Housing

See page 2.26