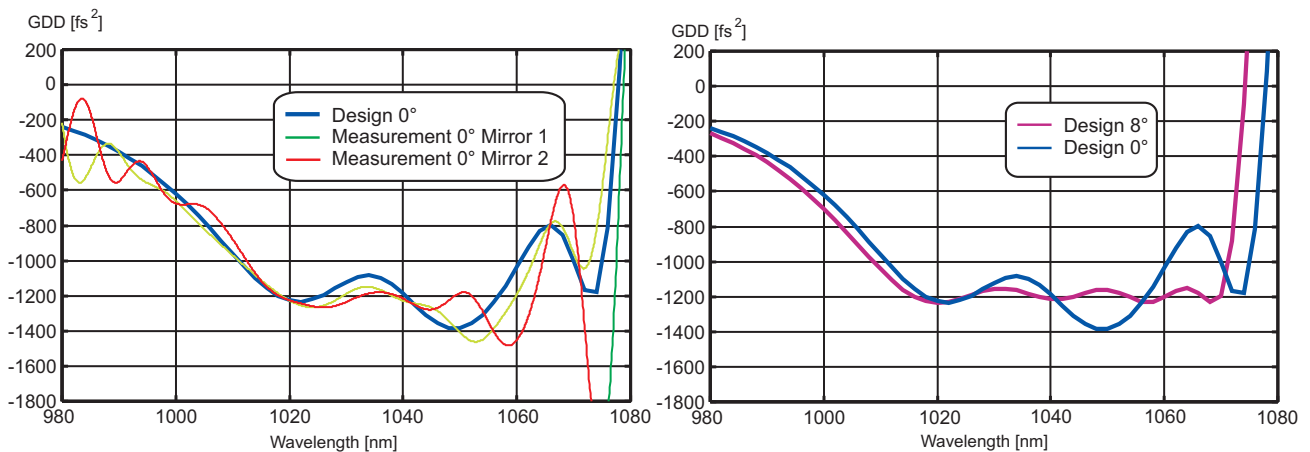
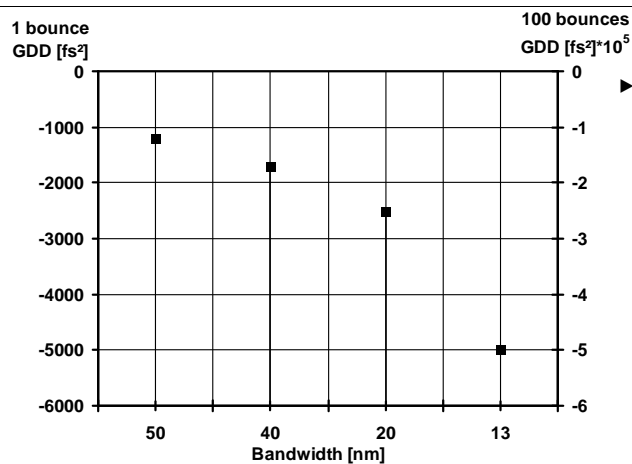


## High Negative Dispersion Mirror for Ultra Fast Laser Technology

► NANEO | Chord HD is a mirror to compensate positive Group Velocity Dispersion (GVD) of all materials. We expand our NANEO | Chord series: the HD Mirror allows a higher compensation of GVD up to several thousand fs<sup>2</sup>. These high values are due to our high precision thickness measurement and the advanced control of our coating process. The ion beam sputtered hard films guarantee an extreme long-term stability of the mirror properties.



Calculated and measured properties of a matched HD-GVD mirror (matched for 8°)



### ► Pulse compression with HD-GVD mirrors

Using a cascade of mirrors for about 100 bounces, the achievable negative dispersion values are comparable to compression grids. With a reflection value of 99.9% for a single mirror, the cascade reaches > 90% transmission efficiency. The advantages compared to compressions grids are a more compact assembly and a higher stability.

### ► Specification:

Wavelength:	1020nm – 1060nm	AOI:	0° - 8°
Reflection:	>99.9%	Absorption:	< 6 * 10 <sup>-4</sup>
GD:	83 ± 12fs	GDD:	-1200 ± 200fs <sup>2</sup>

### ► GVD Mirrors on stock

Sizes: Diameter 1/2 inch, thickness 9.5mm; ROC: plan  
Price per unit: 246,00€

Customer specific high dispersion mirrors are available on demand.