



**Technical
Data Sheet**

DMM – Dispersion Managed Mirror with -1000 fs² over 80 nm

This broadband dispersion-compensating mirror has a high amount of negative group delay dispersion over a spectral band width of approx. 80 nm, useful for femtosecond laser pulse dispersion compensation or compression. It is made with high energy and high power compatible coating materials.

**Short
Description**

Our DMM series – Dispersion Managed Mirrors – provides high-end laser mirrors with a GDD (group delay dispersion) according to a GDD target.

Such dispersion managed mirrors are used to compensate positive group delay dispersion (GDD) of materials or is used to compress femtosecond laser pulses. GDD values of up to several thousand fs² are possible with a trade off in spectral width.

These Dispersion Controlled Mirrors are fabricated with NANEO's proprietary precision coating technology on IBS (Ion Beam Sputtering) coating machines. NANEO achieves outstanding layer thickness precision. IBS provides the most dense, low loss, stable and durable optical coatings among the optical coating technologies, ready to handle very high laser powers and energies.

**Design
Properties**

Product number: PR0458
 Wavelength range: 1030 nm +/- 40 nm
 Reflection: > 99,95%
 GDD: -1000fs² (negativ GDD, 1030 +/- 40 nm)
 Angle of incidence (AOI): 5°
 Substrates: 15 x 30 x 6.35 mm (W x L x T) or custom sizes

Inquire for custom specifications!

Graph

This graph shows measurements of the Gdd values for an acutally produced coating vs.the design curves for GDD and Reflectivity.

