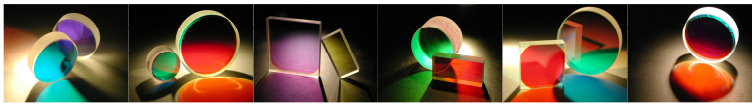


NANEO Precision IBS Coatings GmbH

Technical Data Sheet

Dispersion Controlled Coatings

GVD / Group Velocity Dispersion Mirror
HDM / High Dispersion Mirror
BSDC / Beam Splitter Dispersion Controlled

Short Description

Our Dispersion Controlled Coatings comprise three groups:
Group Velocity Dispersion Mirrors (GVD), High Dispersion Mirrors (HDM) and Beam Splitter Dispersion Controlled Mirrors (BSDC). Dispersion controlled coatings are mirrors to compensate positive Group Velocity Dispersion (GVD) of all materials. GVD's up to several thousand fs² are possible. We can achieve these high values within tight tolerances.
The Dispersion Controlled Mirrors are fabricated with NANEO's proprietary precision coating technology on IBS (Ion Beam Sputtering) coating machines. NANEO achieves unique layer thickness precision. IBS provides the most dense, low loss, stable and endurable optical coatings among the optical coating technologies.

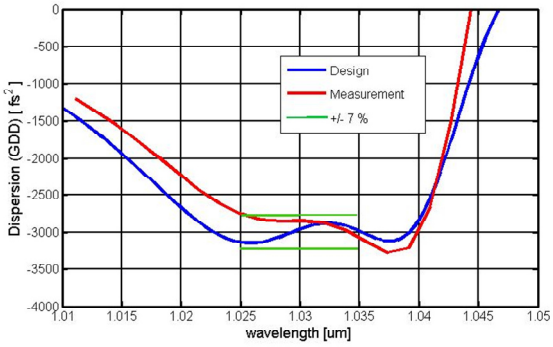
Design Specifications

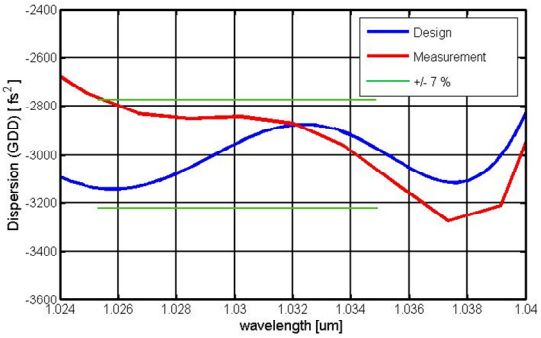
Wavelength:	Range from 400 up to 1500nm
Reflection:	> 99,9%
GVD:	up to -5000fs²
Angle of incidence:	certain angle 0 - 30°
Substrates:	customized substrates

Example Design

Type:	HDM-1025-1035-3000-0°-R>99,9
Reflection:	R>99,9% @ 1025-1035nm
GVD:	-3000fs²
AOI:	0°
customized design	

GVD = -3000fs² +/-7%





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