

# ISO 13697:2006-05 (E)

## Optics and photonics - Lasers and laser-related equipment - Test methods for specular reflectance and regular transmittance of optical laser components

---

Contents	Page
<b>Foreword</b> .....	iv
<b>Introduction</b> .....	v
<b>1 Scope</b> .....	1
<b>2 Normative references</b> .....	1
<b>3 Terms and definitions</b> .....	1
<b>4 Symbols used and units of measure</b> .....	2
<b>5 Test and calibration principles</b> .....	2
<b>5.1 General</b> .....	2
<b>5.2 Specular reflectance</b> .....	2
<b>5.3 Transmittance</b> .....	3
<b>5.4 Calibration</b> .....	3
<b>6 Preparation of test sample and measuring arrangement</b> .....	7
<b>6.1 General</b> .....	7
<b>6.2 Laser beam preparation</b> .....	8
<b>6.3 Chopper</b> .....	8
<b>6.4 Detector arrangement</b> .....	8
<b>7 Characteristic features of the laser beam</b> .....	9
<b>8 Test procedure</b> .....	9
<b>8.1 Calibration of the chopper mirror</b> .....	9
<b>8.2 Specular reflectance for near-normal incidence</b> .....	10
<b>8.3 Angular dependence of reflectance</b> .....	11
<b>8.4 Transmittance</b> .....	12
<b>9 Evaluation</b> .....	13
<b>9.1 Specular reflectance for near-normal incidence</b> .....	13
<b>9.2 Angular dependence of reflectance</b> .....	13
<b>9.3 Transmittance</b> .....	13
<b>10 Test report</b> .....	14
<b>Bibliography</b> .....	16