

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