

Inspection of KUGLER Flat- Mirror



Kugler project number: 11110027  
 Kugler article number: 55010  
 Serial number: 001

Flat- Mirror specifications:

material: OFHC Copper  
 dimensions: Ø12"  
 thickness: 1"

form accuracy:  $PV < 2 \mu m$   
 roughness:  $Ra < 5 \text{ nm}$   
 coating: Protected Gold

Summary of verification measurements:  
 form accuracy (best fit geometry):  $PV \leq 1 \mu m$   
 (over 98% clear aperture of optical surface)  
 interferogram attached  
 roughness:  $Ra < 0.7 \text{ nm}$   
 interferogram attached  
 visual inspection of coating: type: PG. okay: ( X )  
 no: ( )

comments: Draw. No. D1001727- V2

---

---

---

---

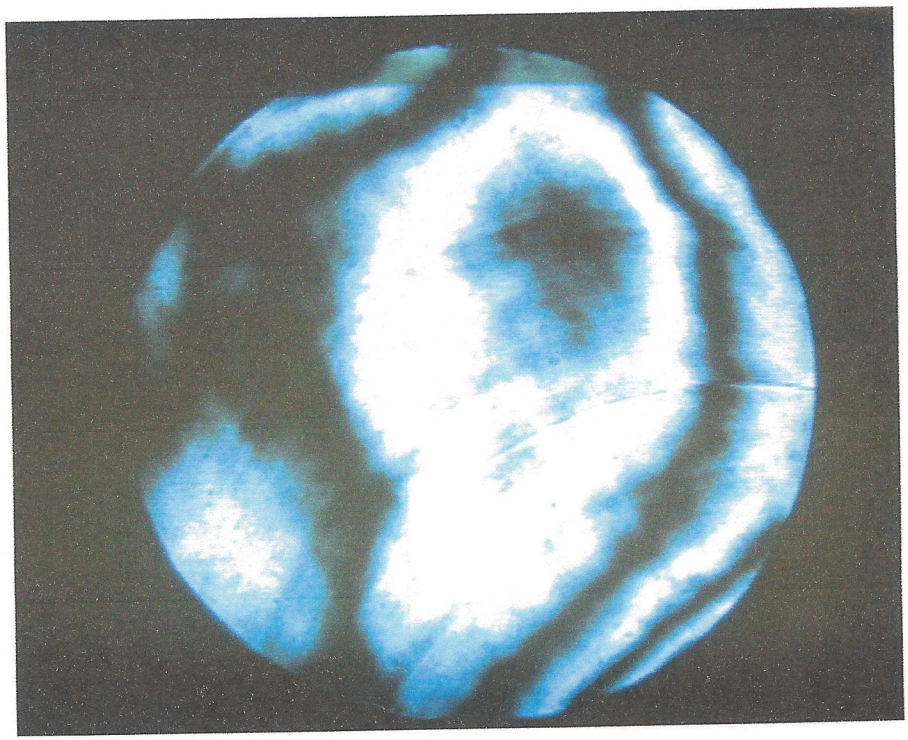
---

---

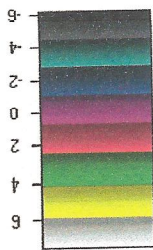
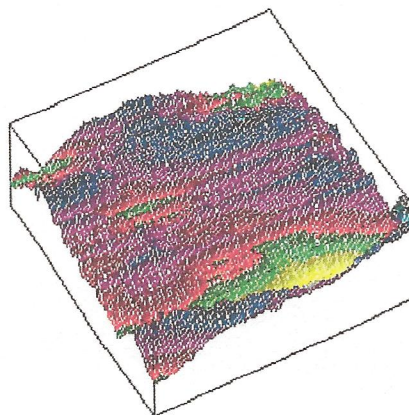
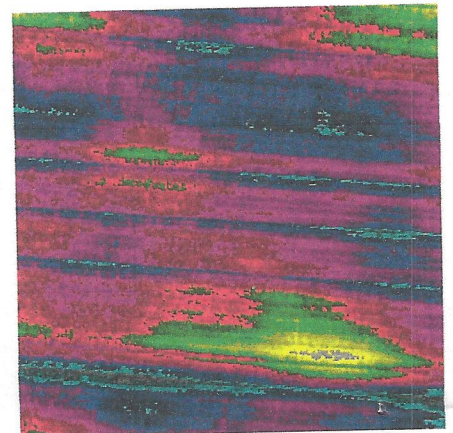
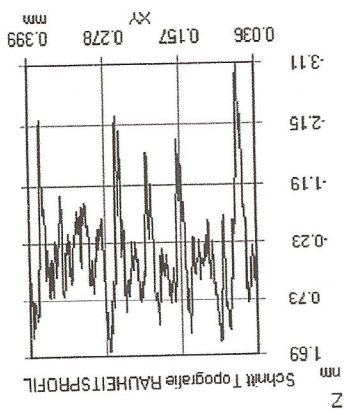
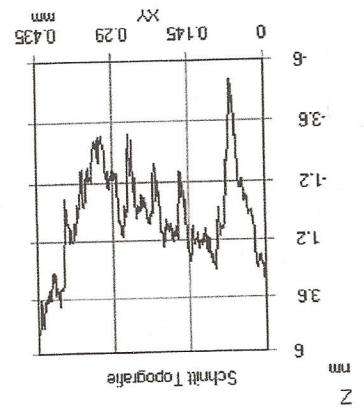
---

inspection date: 25.03.2011  
 inspected by: pg

PF-No.: 11110027  
Art. No.: 55010  
Serial No.: 001  
Article: Flat Mirror  
Type: Ø12", t1"  
Material: OFHC Copper  
Coating: None  
Draw.-No.: D1001727-V2



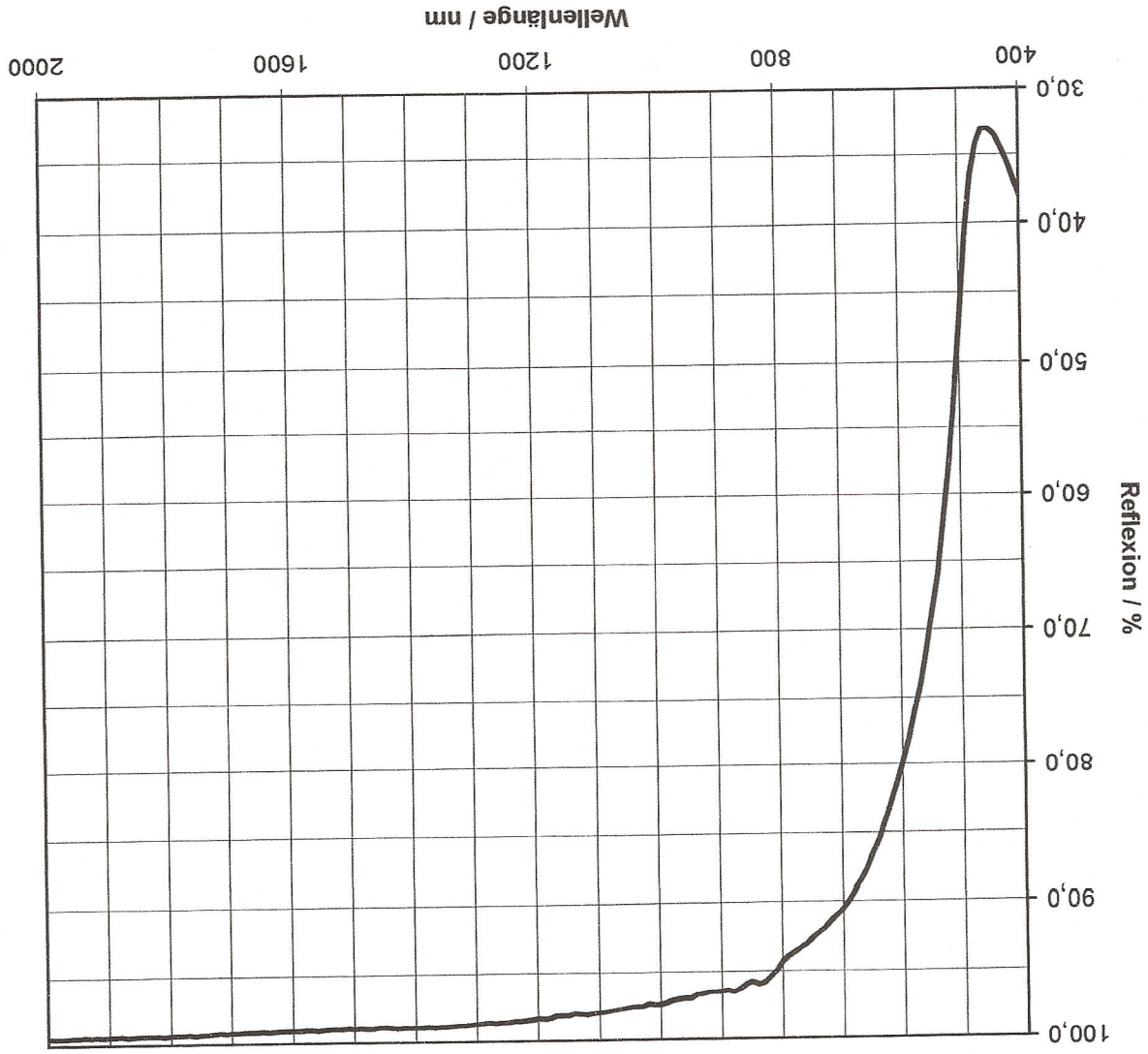
Qualitätsprüfung Mikrotecture



- Minimum = -6.221 nm
- Maximum = 7.488 nm
- PV = 13.71 nm
- RMS = 1.876 nm
- Schichtlänge = 0.4353 mm
- N = 852
- Li = 0.48 mm
- Cut-off = 0.08 mm
- Rt = 4.71806 mm
- Rmax = 4.56706 mm
- Rz = 3.64584 mm
- Ra = 0.612418 mm
- Rq = 0.810925 mm

KUGLER Mikrotopographiesystem KMS  
 Auswertung PSIA NT, Messfenster 0,32x0,32mm  
 Prüfer: Röder  
 Projekt: Flat mirror Ø304,8mm x 25,4mm  
 Pf: 1110027/Art.Nr. 55010/01

Datum: 09.03.2011  
 Zeit: 13:28:43



Gold mit Schutz Charge #1

Kunde: Kugler  
 Beschichtung: Gold mit Schutz  
 Bestellnummer: 11050894  
 Artikelnummer/-bezeichnung: 55010 Planspiegel D304,8  
 Messstand: Perkin Elmer Lambda 900  
 Einfallswinkel: 7°  
 Referenz: NIST

Prüfprotokoll Beschichtung

**PLEIGER**

Paul Pleiger Maschinenfabrik  
 GmbH & Co. KG  
 Geschäftsbereich Laseroptik  
 Im Hammertal 51  
 D-58456 Witten  
 Telefon (02324) 398 - 401  
 Telefax (02324) 398 - 402

