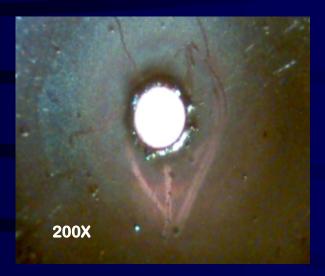


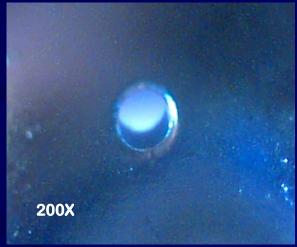
Specialists in Ultra High Purity (UHP) Surface Finishing



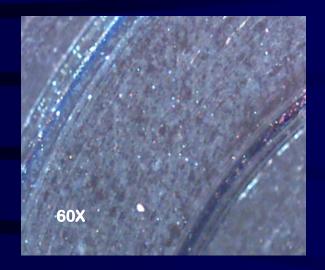


150 Micron Laser "drilled" orifice in Nickel (as "drilled")

The same orifice after AES UHP polishing

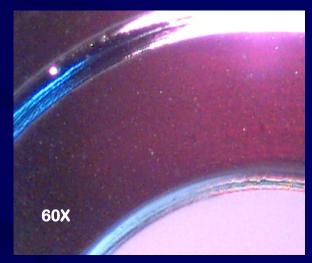




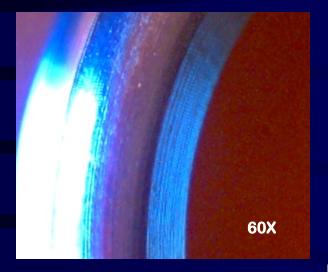


"Finished" Competitor's DISS Nickel seal For CGA 630/732 Fittings

The same seal after AES UHP polishing

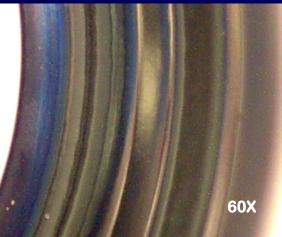




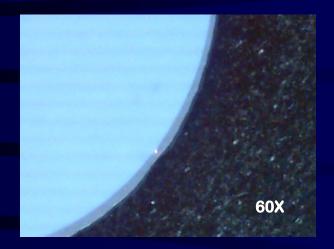


"As Machined" gland sealing bead 316L SS

The same bead after AES UHP polishing (no mechanical lapping)

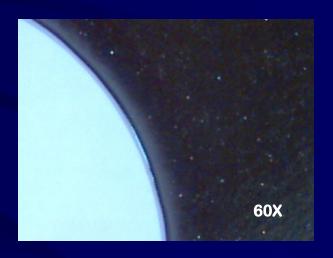






Competitor's finished EP gasket

AES UHP Polishing



Surface Analysis 316L

- Surface Finish Ra 5 Ra max and 10 Ra max
- Electron Spectroscopy for Chemical Analysis (ESCA) - Cr/Fe - 2.0 and CrO/FeO - 3.0
- Auger Electron Spectroscopy (AES) CrO Layer Thickness > 20 Ang and > 1.0 Cr/Fe
- SEM analysis defects at 3500X



Surface Analysis Nickel

- Surface Finish Ra 5 Ra max and 10 Ra max
- Electron Spectroscopy for Chemical Analysis (ESCA) – Ni and Ni Oxides only
- Auger Electron Spectroscopy (AES) C Layer Thickness < 5 Ang
- SEM analysis defects at 3500X



Quality Assurance & Control

Quality Control Program

- Applied Engineered Surfaces, Inc. has a Quality Program Designed to Ensure that Every Shipment of Product Meets or Exceeds All Customer Requirements
- AES manufactured millions of components during 2004/2005 with no customer quality issues or returns



Manufacturing Control

In Process Material Quality Inspection

- Automated, Continuous Process Control
- Operator Based Inspection and Control



Future Developments

- AES Filed Two Product Patents in 2004
- AES completed a new 12,000 sqft Facility Expansion during 2004



AES Goals

Highest Quality Products and Highest Customer Service

