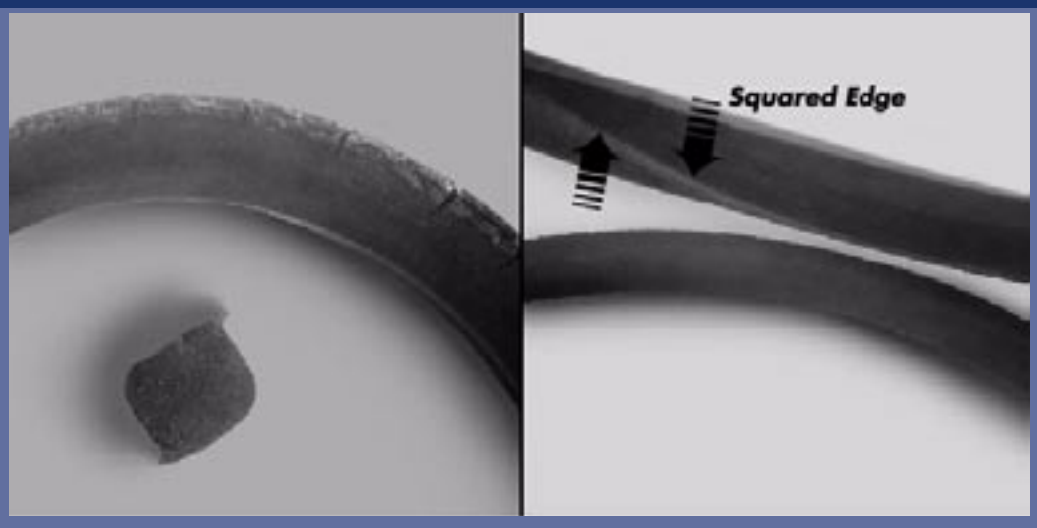
DR.PUMP
& ENGINEERING
CO., LTD

When the pump fails!

ROTATING MECHANICAL SEAL FAILURE SYMPTOMS

Elastomer – Symptoms:
030
Deformation under pressure

4a31



Substantial deformation under pressure

Minor deformation under pressure

- Symptom
  - Hard / deformation under pressure (squared edge)
- Causes
  - Elastomer temperature limit overstepped
  - Incompatibility with product
- Types of failure
  - Incorrect application
  - Temperature limit overstepped
  - Excess heat due to dry running
  - Insufficient environment controls
- Solutions
  - Use appropriate O-ring material
  - Prevent situations where dry running could occur
  - Suitable application / environment control