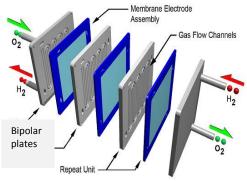
## **New technologies: Fuel cells**

Major Strain e,

Warm Temperature Stamping of PEM Fuel Cell Plates



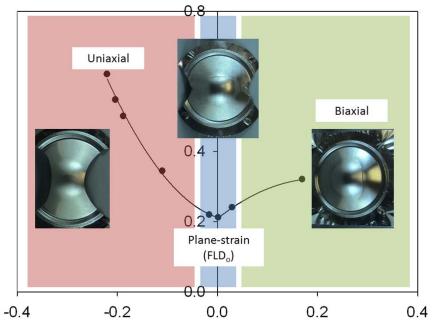


Existing Technology; Graphite bipolar plates New technology; Stamped stainless steel

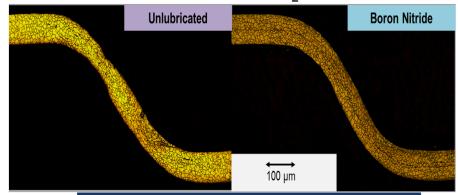




Forming limit diagram- 30% Cr Ferritic stainless steel



Minor Strain e<sub>2</sub>



**Necking is prevented by lubrication**