

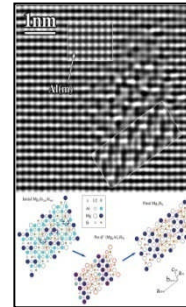
Objective

Increase strength after forming of aluminium body parts through improvement of the bake hardening process

- shorter baking times
- lower temperature

Research topics

Over 10 years state of the art electron microscopy



Corus Al automotive body sheet



Lamborghini Gallardo



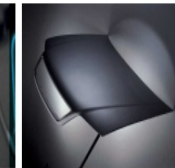
Mercedes E



Outer panel



Inner panel



Outer panel: superior hemming properties

Industrial benefits

- combination of painting and bake hardening process
- 10-30% increase in productivity at OEMs
- Corus sales of automotive body sheet doubled
- large investment in production facility in Corus Duffel



Bake hardening - Corus