

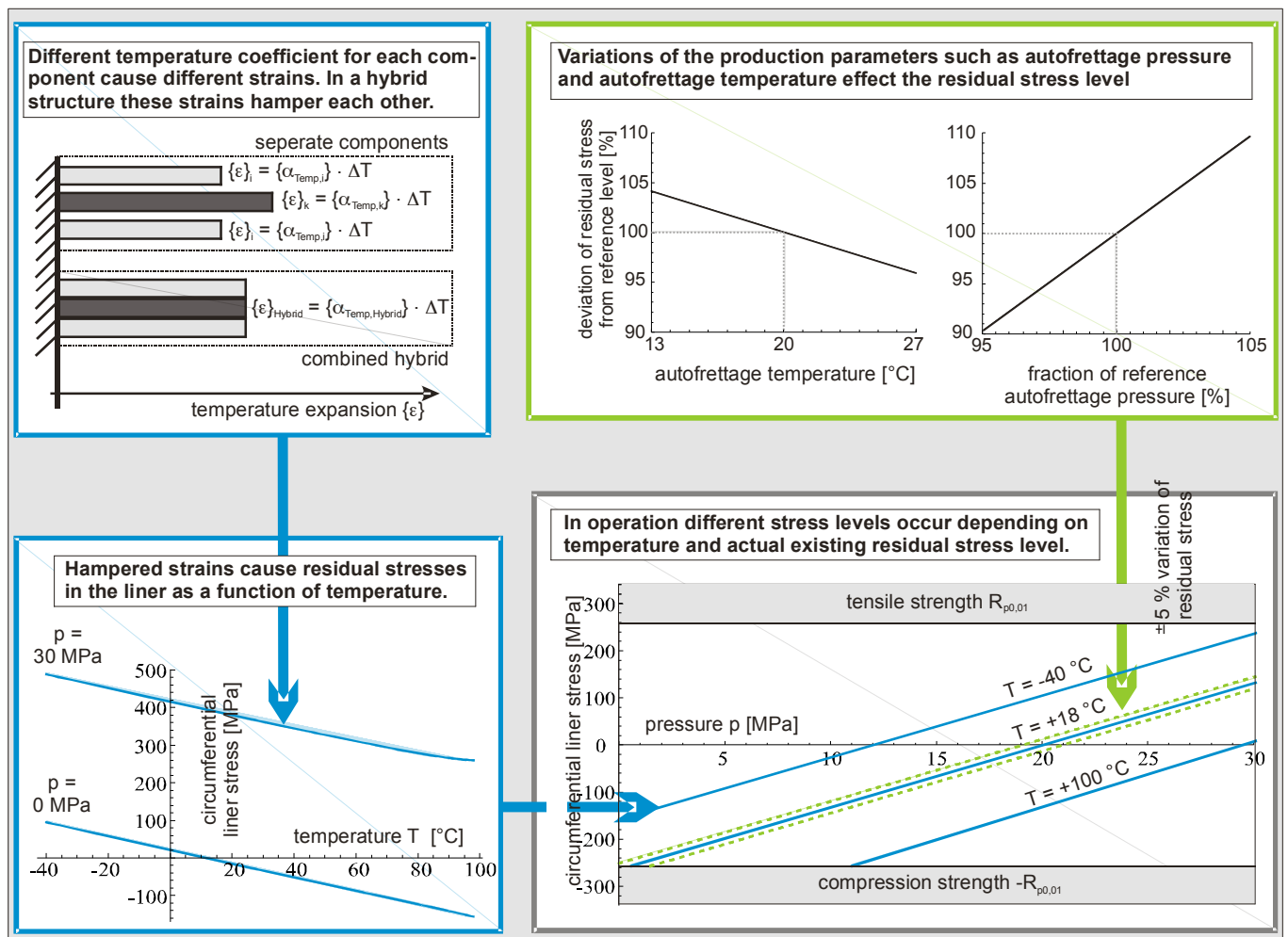
Safety Assessment and Requirements: Analytical Stress Simulation in Hybrid Cylinders

Objectives

- ❖ Development of an improved model to simulate the structural behaviour of hybrid cylinders
- ❖ Sensitivity analysis relating to the impact of temperature and pressure on the stress level of cylinders

Achievements

- ❖ The analytical model shows the major impact of the parameters temperature and pressure on the state of residual stress, which decisively influences the life-time behaviour of the storage cylinder.



Future Perspectives

- ❖ To build up a better knowledge base about the residual stress level and the degree of imperfection, and their influence on the structural behaviour, further tests are necessary to assess each effect separately.
- ❖ New sophisticated testing methods for accurate measurements of the inhomogeneous strain field as well as for the residual stress level have to be developed.

Partners



Website

www.storhy.net



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