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## **External Gas Testing of Premium Connections as a Contribution to Quality Control and Safety**

### **Abstract**

*The paper describes the application of gas testing of casing and tubing connections for the gas storage industry. Internal gas testing has been established as a technical standard for the gas storage as well as gas production industry. Especially in gas storage caverns, external gas testing has advantages over internal testing, since strings can be exposed to external gas pressures during certain operations. The development of an external gas testing tool based on the detection of helium as tracer gas (SupraHOLD™) and the field applications in Northern Germany are described. The technical requirements for a reliable leak detection are discussed.*

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