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Welding Casings for Well Completions

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BACKGROUND

Gas-tightness is a fundamental requirement for an operational installation for underground gas storage, since only a gas-tight facility can prevent the storage medium from migrating into the overlying layers or escaping into the biosphere.

The ongoing development of new techniques for the creation of gas storage caverns in rock salt has given rise to a demand for technologies that can guarantee the technical gas tightness of the installed well completions. This has led to the development of new cementing processes and the continuous improvement of gas-tight casing couplings.

The welding of casings was introduced in Germany in the 1960s as an alternative to the large variety of commercially available gas-tight casing couplings, and it has been further developed up to the present day to meet the demands of the drilling and completing industry.