

Liquid Salt Environmental Creep Stress Rupture Testing System

Disclosure Number

201102724

Technology Summary

The Liquid Salt Environmental Creep Stress Rupture Testing System can test creep stress rupture properties of materials in corrosive liquid environment at temperatures up to 1000°C.

The system provides solutions to the major problems in such testing, i.e. maintaining strength and structural integrity of specimen grips and load train, minimizing lab environment contamination while maximizing specimen exposure, maintaining purity of the testing liquids, and maintaining correct load on the specimen inside a sealed retort.

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