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High-temperature corrosion is a mechanism of corrosion that can take place in gas turbines, diesel engines, furnaces or other machinery coming in contact with hot gas containing certain contaminants. Fuel sometimes contains vanadium compounds or sulfates which, having a low melting point, can form compounds during combustion.

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Industrially, high temperature corrosion is a significant issue. Any component that is exposed to a high temperature in a non-inert environment is potentially at risk. This includes the aerospace, power, metal processing, automotive, waste incineration and chemical processing industries, with many more besides.

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are considered separately before
considering degradation mechanisms in
complex environments.

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International Conference on High

Temperature Corrosion scheduled on

September 24-25, 2020 at San

Francisco, United States is for the

researchers, scientists, scholars,

engineers, academic, scientific and

university practitioners to present

research activities that might want to

attend events, meetings, seminars,

congresses, workshops, summit, and

symposiums.

High Temperature Corrosion - TWI

The high-temperature corrosion

characterization and mitigation efforts at

SRNL led to the identification of Mg as a

corrosion inhibitor in MgCl₂-KCl and

FLiNaK. The combination of Mg and

MgCl₂-KCl is now a leading candidate for

corrosion control in the heat transfer

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systems in concentrating solar power
(CSP) applications.

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scales on hot-rolled steel strips.

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**Development of Protective Coatings
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temperature corrosion protection: this paper describes development of new products in high-temperature corrosion protection, the difficulties encountered in the development of a non-zinc high temperature coating for use up to 400[degrees]C, and an alternative approach to thermal insulation with in-built corrosion and damage resistance.

High Temperature Corrosion - an overview | ScienceDirect ...

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W. Gao, Z. Li, in Developments in High Temperature Corrosion and Protection of Materials, 2008. High-temperature corrosion phenomena and their related failures are widely found in the

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chemical, electrical, energy and
transportation industries.

2019 High Temperature Corrosion Conference GRC

Some of the major challenges to high-temperature CSP implementation include molten salt corrosion and flow erosion of the sensors. Potential high-temperature sensor types that have been identified as of interest for CSP HTF/TES applications include temperature, pressure, flow, and level sensors.

Developments In High Temperature Corrosion

This book examines the latest developments in the understanding of high temperature corrosion processes and protective oxide scales and coatings. Part one looks at high temperature corrosion. Chapters cover diffusion and solid state reactions, external and internal oxidation of alloys,

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metal dusting corrosion, tribological degradation, hot corrosion, and oxide scales on hot-rolled steel strips.

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