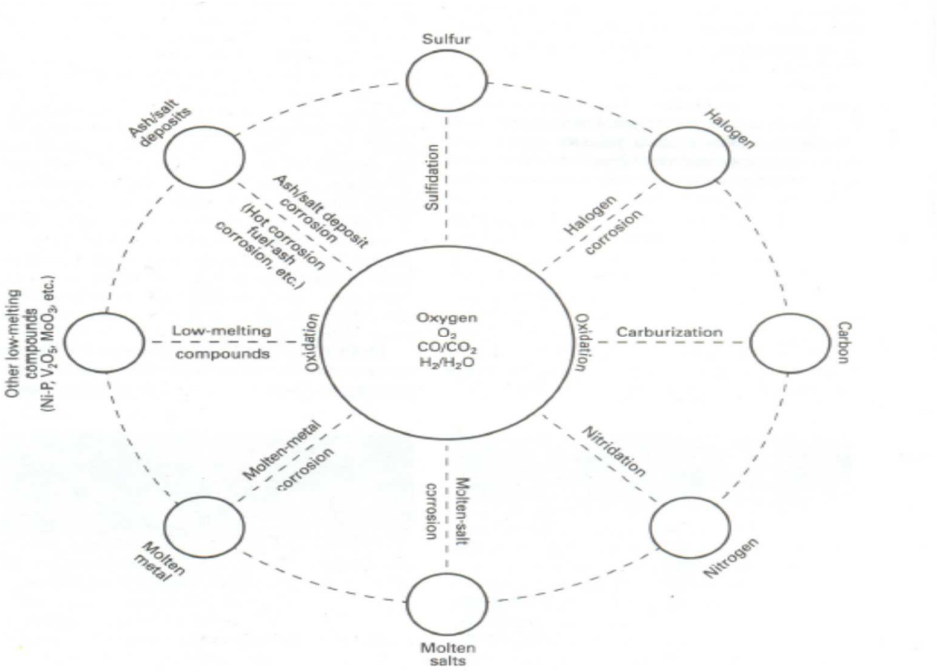
Steel, Stainless Steel, High & Super Alloy-
Heat, Wear, Abrasion, Pressure & Corrosion Resistant
Castings, Spares, Replacement Parts, Custom-Made Components
Manufacturer-Supplier to OEM's, Plants, & Process Industry
Machined, Proof-Machined, CNC/VMC Precision Machined Components
Conversion to Castings from Fabrications, Forgings & Welded Assemblies
Engineering, Materials & Metallurgical Consulting

WH-76, Mayapuri Industrial Area
Phase-I, New Delhi 110 064, India

T: +91-(0)11-2811-5021
F: +91-(0)11-2811-5021
E: acmecast@acmealloys.com
W: www.acmealloys.com

HIGH TEMPERATURE CORROSION

Schematic showing the principles modes of high-temperature corrosion in industrial environments, as well as interaction between oxygen activity and a principal "corrodent" activity



High-Temperature Corrosion plays an important role in selection of material for construction (MOC) of industrial equipment, parts and components ranging from gas turbines to heating retorts. The principal mode of high temperature corrosion frequently responsible for equipment problems are:

- Oxidation
- Carburization and metal dusting
- Sulphidation
- Nitridation
- Halogen gas corrosion
- Ash/salt deposit corrosion
- Molten salt corrosion
- Molten metal corrosion

The industries that face such high temperature corrosion as these include:

- Aerospace
- Heat treating
- Mineral and metallurgical processing
- Chemical processing
- Petroleum refining
- Petrochemical processing
- Ceramic manufacturing
- Electronic manufacturing
- Glass manufacturing
- Automotive
- Pulp & paper
- Waste incineration
- Fossil fuel power generation
- Coal gasification
- Nuclear