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9 to 12Cr steels have
been used in power
plants with steam
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°C due to their higher
oxidation resistance as

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well as higher creep strength than low-Cr steels such as 2.25Cr-1Mo steel. 12Cr steels are superior to 9Cr steels in terms of oxidation resistance, because the oxidation resistance generally improves with increasing Cr concentration.

Development of creep-resistant steels and alloys for use

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structural alloys in the presence of mixtures of synthetic coal ash, alkali sulfates, and alkali chlorides.

Candidate alloys are also ... components that are capable of operating at much higher temperatures than those found in current coal-fired power plants.

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Coal-ash Corrosion of Alloys for Combustion Power Plants

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transformations - are explained beginning with elementary principles.

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