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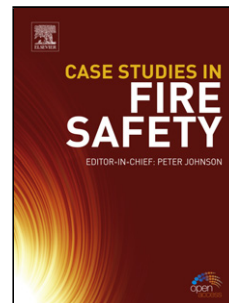
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# Rearrangement of oxide scale on Ni-11Fe-10Cu alloy under anodic polarization in molten $\text{Na}_2\text{CO}_3\text{-K}_2\text{CO}_3$

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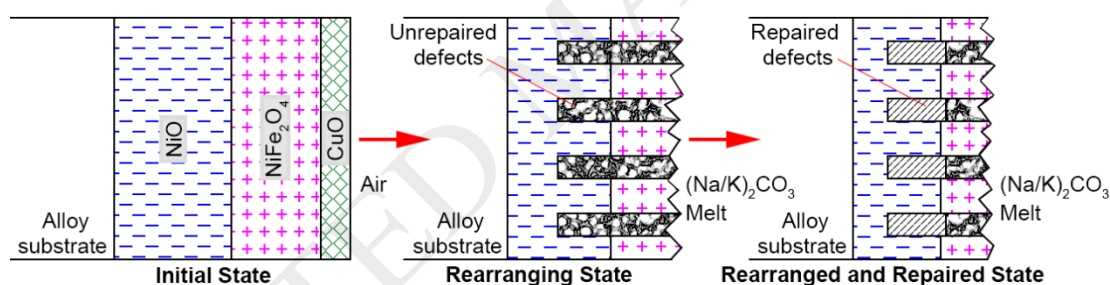
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## Graphical abstract



## Highlights

- Pre-oxidation of Ni-11Fe-10Cu alloy provides an effective way to prepare an inert anode in molten carbonate;
- An anodic polarization could drive the rearrangement of the pre-formed oxide scale in molten carbonate;
- The anodic polarization could repair the defects of the pre-formed oxide scale;
- A repair-enhancement effect of a pre-formed oxide scale improves the corrosion

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