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Title: Effect of passive film on mechanical properties of martensitic stainless steel 15-5PH in a neutral NaCl solution

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## Highlights

- Passive film shows outer Fe oxides-rich and inner Cr oxides-rich layers.
- The stainless steel shows excellent SCC resistance in neutral 3.5 wt% NaCl solution.
- Passive film increases ductility of the stainless steel.

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