

In this issue

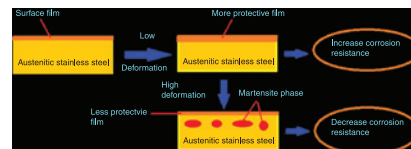
Mohd Talha, Yucong Ma, Yuanhua Lin,
Yong Pan, Xiangwei Kong, O.P. Sinha and
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Corrosion performance of cold deformed austenitic stainless steels for biomedical applications

<https://doi.org/10.1515/correv-2019-0004>
Corros Rev 2019; 37(4): 283–306

Review: Low level of cold deformation enhances the surface diffusion, which results in the formation of stable passive film, while severe cold deformation results in the formation of strain-induced martensite, which decreases the localized corrosion resistance by increasing the number of active anodic sites on the surface.

Keywords: cold deformation; corrosion; passive film; stainless steel.



Markus Becker

Chromate-free chemical conversion coatings for aluminum alloys

<https://doi.org/10.1515/correv-2019-0032>
Corros Rev 2019; 37(4): 321–342

Review: An overview is given on smart conversion coatings for the corrosion protection of aluminum and its alloys, which substitute toxic chromates.

Keywords: aluminum alloys; chemical conversion coating; chromate-free; corrosion protection; literature review.

