

# Prevention of Significant Embrittlement in Certain Types of High-Strength Steels, Prior to and During Cadmium Electroplating.

s.n - Hydrogen embrittlement



Description: -

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## Techniques for investigation of hydrogen embrittlement of advanced high strength steels

Embrittlement and hardening of as-delivered EUROFER97 steel are comparable to those of reference steels.

### Embrittlement of steels

Subsequently the bars are rebent or straightened in order to determine the loss of ductility or embrittlement of the aged material. The individual phase properties are determined according to the experimental nanoindentation result and the macroscopic stress-strain curve from a uni-axial tensile test. Much research has been done to catalog the compatibility of certain metals with hydrogen.

### High

Materials that are recycled may be exempt from RCRA regulations if certain conditions are met.

### Embrittlement of steels

The analysis involved the 3-D surface reconstruction, the trace of primary profile lines in both vertical and horizontal directions within the stereo-pair area, the measurements of the contribution of the modes of fracture in each profile, and finally, the calculation of the average contribution in each stereo-pair.

### Hydrogen Embrittlement

Fractographic examinations reveal hydrogen embrittlement effects in the form of internal cracking between fatigue striations together with surface modifications, particularly at low stress amplitudes. Testing of the AISI 4340 at both 20°C and 4°C showed that the temperature had no effect on

the hydrogen embrittlement response.

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