



API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

SCC usually occurs at pH values above two (2). SCC tendency _____ toward the alkaline pH region

- A. Increases
- B. Decreases
- C. Stabilizes
- D. None of the above

Correct Answer: B

QUESTION 2

_____ is a form of damage found mostly in older vintage carbon steels and C-0.5 Mo low alloy steels under the combined effects of deformation and aging at an intermediate temperature.

- A. Spheroidization
- B. Thermal fatigue
- C. Strain aging
- D. None of the above

Correct Answer: C

QUESTION 3

Sulfide stress cracking (SSC) is defined as cracking of metal under the combined action of tensile stress and corrosion in the presence of _____ and _____.

- A. Sulfur, Oxide
- B. Hydrogen, water
- C. H₂S, Oxygen
- D. Water, H₂S

Correct Answer: D

QUESTION 4

_____ is when oxygen reacts with carbon steel and other alloys at high temperatures converting the metal to



oxide scale.

- A. High temperature corrosion
- B. Oxidation
- C. Dealloying
- D. Thermal fatigue

Correct Answer: A

QUESTION 5

High strength, low alloy steels such as A193-B7 bolts and compressor parts are susceptible to hydrogen stress cracking. A193-B7M bolts are susceptible if _____.

- A. Exposed
- B. Overtorqued
- C. Double nutted
- D. None of the above

Correct Answer: B

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