

API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

Amine stress corrosion cracking is a term applied to the cracking of steels under the combined actions of _____ and _____ in aqueous alkanolamine systems used to remove/absorb H₂S and/or CO₂ and their mixtures from various gas and liquid hydrocarbon streams.

- A. Temperature, pressure
- B. Pressure, stress
- C. Temperature, corrosion
- D. Tensile stress, corrosion

Correct Answer: D

QUESTION 2

_____ is a selective corrosion mechanism in which one or more constituents of an alloy are preferentially attacked leaving a lower density often porous structure.

- A. Phenol corrosion
- B. Dealloying
- C. Carburization
- D. Preferentially weld attack

Correct Answer: B

QUESTION 3

The rate of creep deformation is a function of the material, load and temperature. The rate of damage is sensitive to both load and temperature. Generally, an increase of about _____ or an increase of _____ on stress can cut the remaining life in half.

- A. 25° F, 15%
- B. 50° F, 10%
- C. 50° F, 15%
- D. 25° F, 10%

Correct Answer: A

QUESTION 4

A vacuum tower operating at 740° F is being entered to inspect. Several sets of Type 410 SS trays are bent at various angles. The trays are removed in order to straighten them. When an attempt is made to straighten them cracks form at the bends. What type of damage mechanism would cause the cracks to form?

- A. Hydrogen embrittlement
- B. Sulfide stress corrosion cracking
- C. 885° F embrittlement
- D. High temperature corrosion

Correct Answer: C

QUESTION 5

Cooling water corrosion can result in many different forms of damage including general corrosion, pitting corrosion, _____, stress corrosion cracking and fouling.

- A. MIC
- B. HIC
- C. SOHIC
- D. All of the above

Correct Answer: A

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