



API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

Cracks connecting hydrogen blisters are referred to as _____.

- A. SOHIC
- B. HIC
- C. SCC
- D. None of the above

Correct Answer: B

QUESTION 2

Carbon steel is susceptible to SCC when used in _____ service.

- A. Hydrogen
- B. Ammonia
- C. High temperature
- D. High pressure

Correct Answer: B

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

Permanent deformation occurring at relatively low stress levels as a result of localized overheating is called _____.



- A. Stress cracking
- B. Brittle fracture
- C. Temper embrittlement
- D. Stress rupture

Correct Answer: D

QUESTION 5

Thermal fatigue damage is in the form of cracking that may occur anywhere in a metallic component where relative movement is constrained, particularly under repeated _____.

- A. Cyclic stresses
- B. Thermal cycling
- C. Pressure variations
- D. All of the above

Correct Answer: B

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