API-571 Q&As

Corrosion and Materials Professional

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QUESTION 1

_____ 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 2

For some materials such as titanium, carbon steel and low alloy steel, the number of cycles to fatigue fracture decreases with _____ until an endurance limit is reached. Below this endurance limit, fatigue cracking will not occur, regardless of the number of cycles.

A. Temperature increases

B. Stress endurance

C. Pressure decreases

D. None of the above

Correct Answer: B

QUESTION 3

Which of the following is not a method used to prevent brittle fracture?

A. Thorough inspections

B. Strict controls on selecting construction materials

C. Post weld heat treatment

D. Controlling minimum operating temperatures

Correct Answer: A

QUESTION 4

All _____ based materials and low alloy materials, 300 Series SS and 400 Series SS are susceptible to Sulfidation.

A. Carbon

B. Steel

C. Chromium

D. Iron

Correct Answer: D

QUESTION 5

Sulfidation of iron-based alloys usually begins at about:

A. 150º F.

B. 250º F.

C. 500º F.

D. 1100º F.

Correct Answer: C