

Quiz 2026 API-571: Updated Advanced Corrosion and Materials Professional Testing Engine

Quizlet API 571
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- 1. _____ is a change in the microstructure of certain carbon steels and 0.5 Mo steels after long term operation in the 800° F to 1100° F range.
A. Graphitization
B. Softening
C. Temper Embrittlement
D. Creep: A
- 2. What structure is 304 stainless steel?
A. Martensitic
B. Austenitic
C. Duplex
D. Ferritic: B
- 3. _____ is the result of cyclic stress caused by variations in temperature.
A. Creep
B. Thermal Fatigue
C. Cyclic Cracking
D. Stress Corrosion Cracking: B
- 4. General or localized corrosion of carbon steels and other metals caused by dissolved salts, gases, organic compounds or microbiological activities is called _____.
A. Flue Gas Corrosion
B. Atmospheric Corrosion
C. Cooling Water Corrosion
D. None of the Above
E. All of the Above: C
- 5. What structure is 410 stainless steel?
A. Martensitic
B. Austenitic
C. Duplex
D. Ferritic: A
- 6. The sudden rapid fracture under stress (residual or applied) where the material exhibits little or no evidence of ductility or plastic deformation is called _____.
A. 885° F Embrittlement
B. Temper Embrittlement
C. Stress Corrosion Cracking
D. Brittle Fracture: D
- 7. What structure is 409 stainless steel?
A. Martensitic
B. Austenitic
C. Duplex
D. Ferritic: D
- 8. Low alloy steels contain a maximum of _____ chrome.
A. 5%
B. 6%
C. 7.5%
D. 9%: D
- 9. Which of the following can be affected by 885° F Embrittlement?
A. 410 SS
B. 430 SS
C. 308 SS
D. Alloy 2205
E. A, B and D: E
- 10. For 5Cr-0.5Mo, what is the threshold temperature for creep?
A. 500° F
B. 800° F
C. 600° F
D. 700° F: B
- 11. _____ has been a major problem on coke drum shells.
A. Thermal fatigue
B. Stress cracking
C. Erosion
D. Temper embrittlement: A
- 12. Thermal fatigue cracks propagate _____ to the stress and are usually dagger shaped, transgranular and oxide-filled.
A. Axial
B. Diagonal
C. Transverse
D. Angular: C
- 13. Inspection for wet H₂S damage generally focuses on _____ and _____.
A. Weld seams
B. Nozzles
C. Trays
D. Down comers
E. A and B: E
- 14. _____ is a form of erosion caused by the formation and instantaneous collapse of innumerable tiny vapor bubbles.
A. Condensate corrosion
B. Cavitation
C. Dew-Point corrosion
D. Atmospheric corrosion: B
- 15. With CUI, corrosion rates _____ with increasing metal temperatures up to the point where the water evaporates quickly.
A. Decrease
B. Increase
C. Stay the same
D. None of the above: B
- 16. Which of the following metals is the most anodic?
A. Zinc
B. Carbon Steel
C. Nickel
D. Monel: A

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API Corrosion and Materials Professional Sample Questions (Q55-Q60):

NEW QUESTION # 55

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

Answer: A

NEW QUESTION # 56

Erosion and erosion-corrosion metal loss is characterized by:

- A. grooves and gullies.
- B. smooth pits.
- C. rough pits and pock marks.
- D. linear striations.

Answer: A

Explanation:

Erosion and erosion-corrosion are mechanical degradation mechanisms enhanced by fluid motion, and typically result in directional or flow-oriented metal loss patterns.

According to API RP 571 Section 5.4.2 (Erosion and Erosion/Corrosion):

"Erosion typically results in localized thinning, often described as grooves, gullies, or horseshoe-shaped patterns... The metal loss is directional and may occur in elbows, tees, reducers, and pumps." Hence, Option C (grooves and gullies) most accurately describes erosion and erosion-corrosion characteristics.

NEW QUESTION # 57

A brittle fracture:

- A. Is caused by stress cycles.
- B. Grows slowly and is dependent on time and stress.
- C. Is always the result of thermal stresses.
- D. Grow very rapidly with minimum deformation prior to failure.

Answer: D

NEW QUESTION # 58

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

Answer: B

NEW QUESTION # 59

Since all fuels contain some amount of sulfur, sulfuric and sulfurous acid _____ can occur if the metal temperature is below this temperature.

- A. Corrosion
- B. Pitting
- C. Dew point corrosion
- D. All of the above

Answer: C

NEW QUESTION # 60

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