

API-571 Interactive Practice Exam, Practice API-571 Mock

API 571 Practice Exam #1 Questions And Correct Answers, 100% Verified

At what oxygen content would many metals become flammable even at low pressures, whereas they are non-flammable in air?

- a) >10%
- b) >25%
- c) 20-40%
- d) >40%

B

4.2.20.1

What area of a heater burning fuel oil with numerous impurities would first suffer damage from fuel ash corrosion.

- a) shock tubes
- b) radiant tubes
- c) tube hangers and supports
- d) convection tubes

C

4.4.6.4 c)

Hydriding of titanium is a metallurgical phenomenon in which hydrogen diffuses into the titanium and reacts to form an embrittling hydride phase. This can result in a complete loss of ductility with no noticeable sign of corrosion or loss in thickness. Galvanic contact between titanium and more active materials such as carbon steel can have what affect?

- a) promotes damage
- b) insulates the galvanic system and decreases damage
- c) insulates the galvanic system and decreases damage only if pure titanium is used (not titanium alloys)
- d) all of the above

A

5.1.3.2.3 c)

When connected to a more anodic material in cooling water:

- a) titanium may suffer severe hydriding embrittlement
- b) titanium may suffer severe hydriding embrittlement below 180°F (82°C)
- c) titanium becomes immune to corrosion
- d) titanium becomes almost immune to corrosion

A

4.3.4.3 k)

What form of fatigue cracking develops under the combined effects of cyclic loading and corrosion and are evidenced by very little plastic deformation where the final fracture may occur by mechanical overload accompanied by plastic deformation?

- a) corrosion fatigue

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What is the duration of the API-571 Exam

- Format: Multiple choices, multiple answers
- Length of Examination: 3.25 hours
- Number of Questions: 70

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API Corrosion and Materials Professional Sample Questions (Q29-Q34):

NEW QUESTION # 29

Hydrogen permeation or diffusion rates have been found to be minimal at pH _____ and increase at both higher and lower pH's.

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

NEW QUESTION # 30

_____ usually occurs when a colder liquid contacts a warmer metal surface.

- A. Stress cracking
- B. Thermal fatigue
- C. Thermal shock
- D. Stress shock

Answer: C

NEW QUESTION # 31

The likelihood of brittle fracture is best lessened by:

- A. Frequent inspection of the piping or equipment involved
- B. Postweld heat treatment (PWHT)
- C. Using carbon or low-alloy steels
- D. Using thicker construction materials to lower the resulting stress

Answer: B

Explanation:

From API RP 571, brittle fracture prevention measures include:

"Postweld Heat Treatment (PWHT) reduces residual stresses in the heat affected zone and base metal, thus lowering susceptibility to brittle fracture."

"PWHT is particularly effective when applied to pressure-containing components fabricated from carbon steel or low-alloy steel that will experience low-temperature service." (Reference: API RP 571, Section 4.2.1.2 - Brittle Fracture) Therefore, while other measures may reduce stress or detect flaws, PWHT directly targets one of the root causes: residual stress. Thus, option D is the best prevention method.

NEW QUESTION # 32

Start-up and shutdown of equipment increase the susceptibility of thermal fatigue. There is no set limit on temperature swings; however, as a practical rule, cracking may be suspected if the temperature swing exceeds about _____.

- A. 150° F
- B. 300° F
- C. 200° F
- D. 250° F

Answer: C

NEW QUESTION # 33

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

Answer: B

NEW QUESTION # 34

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