

API-571 Practice Exam, API-571 Valid Test Test

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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API Corrosion and Materials Professional Sample Questions (Q89-Q94):

NEW QUESTION # 89

Thermal fatigue cracks usually:

- **A. Initiate on the surface of the component.**
- B. Are very tight and narrow.
- C. Grow very rapidly (at the speed of sound in the material).
- D. Initiate in the subsurface of the component.

Answer: A

NEW QUESTION # 90

A prime location for erosion is:

- **A. In catalyst piping.**
- B. Upstream of a pump.
- C. Downstream of a gate valve.
- D. Any superheated steam piping.

Answer: A

NEW QUESTION # 91

Reheat cracking is most frequently observed in _____ grained sections of a heat-affected zone.

- **A. Course**
- B. Dense
- C. Fine
- D. Treated

Answer: A

NEW QUESTION # 92

Which of the following is not a major factor associated with boiler water condensate corrosion?

- A. Oxygen content
- B. Carbon dioxide content
- C. Process ph
- **D. Operating pressure**
- E. Temperature

Answer: D

Characteristic stress corrosion cracks have many branches and may be visually detectable by a _____ appearance on the surface.

- Answer: A**

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