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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) radian 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 (Q97-Q102):

NEW QUESTION # 97

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

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

Answer: D

Explanation:

Explanation

NEW QUESTION # 98

Nitriding begins above _____ and becomes severe above _____.

- A. 600(o) F, 900(o) F
- B. 500(o) F, 800(o) F
- C. 800(o) F, 1000(o) F
- D. 700(o) F, 1100(o) F

Answer: A

NEW QUESTION # 99

High strength, low allow steels such as A193-B7 bolts and compressor parts are susceptible to hydrogen stress cracking. A193-

B7M bolts are susceptible if _____.

- A. Overtorqued
- B. Double nutted
- C. None of the above
- D. Exposed

Answer: A

NEW QUESTION # 100

300 Series SS can be used for sour water service at temperatures below _____, where Chloride SCC is not likely.

- A. 120(o) F
- B. 175(o) F
- C. 150(o) F
- D. 140(o) F

Answer: D

NEW QUESTION # 101

An inspector has discovered significant cracking in a T-joint where hot and cold hydrogen-containing streams are mixing in a hydroprocess unit. What damage mechanism should the inspector suspect is the cause?

- A. Mixing point corrosion
- B. Hydrogen embrittlement
- C. Injection point corrosion
- D. Thermal fatigue

Answer: D

Explanation:

API RP 571 on Thermal Fatigue:

"Mixing of hot and cold streams, particularly where hydrogen is present, can induce thermal cycling stresses, leading to thermal fatigue cracking, especially at fittings like tees."

"Hydrogen embrittlement typically affects stressed zones, but this pattern strongly indicates thermal fatigue." So the correct answer is C - Thermal fatigue.

NEW QUESTION # 102

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