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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 ver 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 (Q23-Q28):

NEW QUESTION # 23

Oxidation of carbon steel begins to become significant above _____.

- A. 1000° F
- B. 800° F
- C. 1100° F
- D. 900° F

Answer: A

NEW QUESTION # 24

With sour water corrosion, at a given pressure, the H₂S concentration in the sour water _____ as temperatures _____.

- A. Decreases, decreases
- B. Increases, decreases
- C. Increases, increases
- D. Decreases, increases

Answer: D

NEW QUESTION # 25

300 series stainless steel heater tubes in an oil-burning furnace in the hydrocracker began to leak and the furnace was brought down. What was the probable cause of the cracking?

- A. Polythionic acid stress corrosion
- B. Amine stress corrosion
- C. Stress oriented hydrogen induced cracking
- D. Chloride stress corrosion

Answer: A

NEW QUESTION # 26

Type 304L SS is satisfactory for phosphoric acid concentration of 100% up to about _____. Type 321 is required from there to 225(o) F.

- A. 140(o) F
- B. 120(o) F
- C. 100(o) F
- D. 150(o) F

Answer: B

NEW QUESTION # 27

Components that have been carburized may have a change in the level of _____.

