

Pass API API-571 Guide, API-571 Exam Revision Plan

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 plaslic deformation?

- a) corrosion fatigue

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API Corrosion and Materials Professional Sample Questions (Q126-Q131):

NEW QUESTION # 126

Which of the following will be most effective in finding sour water corrosion?

- **A. Profile radiographic testing**
- B. Spot ultrasonic testing
- C. Angle beam ultrasonic testing
- D. Guided wave ultrasonic testing

Answer: A

Explanation:

API RP 571 notes under Sour Water Corrosion:

"Localized thinning or under-deposit corrosion in sour water services is best detected by profile radiography, which provides a visual comparison of wall thickness over a length of pipe."

"This technique is especially useful for assessing localized metal loss due to under-deposit attack or flow regime effects." (Reference: API RP 571, Section 4.3.2.3 - Sour Water Corrosion) Hence, profile radiographic testing is most effective, making option B correct.

NEW QUESTION # 127

Hydrochloric acid corrosion is a general and localized corrosion and is very aggressive to most common materials of construction. Damage in refineries is often associated with dew point corrosion in which vapors containing _____ and hydrogen chloride condense from the overhead stream of a distillation, fractionation, or stripping tower.

- **A. H₂O**
- B. CO₂
- C. O
- D. O₂

Answer: A

NEW QUESTION # 128

A 5Cr-1Mo piping system in the hydrogen unit shows significant internal wall loss after 2 years in service due to CO₂ corrosion. Which material would be best suited to use to install a new pipe system?

- A. 9Cr-1Mo
- **B. 316 SS**
- C. A-106 Gr B
- D. Titanium

Answer: B

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