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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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What is the duration of the API-571 Exam

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

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API-571 Exam topics

Candidates must know the exam topics before they start of preparation. Because it will really help them in hitting the core. Our **API-571 exam dumps** will include the following topics:

- Explore damage mechanisms on high temperature corrosion including oxidation, sulfidation, carburization and metal dusting.
- Determine general damage mechanisms on uniform or localized loss thickness and explain the various types of corrosion related to it.
- Explore refining industry damage mechanisms for environment assisted cracking and be able to identify the other types of mechanisms.
- Understand refining industry damage mechanisms used in uniform or localized loss in thickness phenomena.
- Possess a general background on the scope, organization and use of API 571 and be able to review the standards and other references related to it.
- Identify the various mechanical and metallurgical failure mechanisms such as brittle fracture, steam blanketing, stress rupture, cracking, thermal shock, fatigue and corrosion.

Difficulty in writing API-571 Exam

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API Corrosion and Materials Professional Sample Questions (Q67-Q72):

NEW QUESTION # 67

HTHA is dependant on temperature, hydrogen partial pressure, time and _____.

- A. Yield
- **B. Stress**
- C. Pressure
- D. Tensile strength

Answer: B

Explanation:

Explanation

NEW QUESTION # 68

What structure is 304 stainless steel?

- **A. Austenitic**
- B. Martensitic
- C. Duplex
- D. Ferritic

Answer: A

NEW QUESTION # 69

_____ is a change in the microstructure of certain carbon steels and 0.5 Mo steels after long term operation in the 800(o) F to 1100(o) F range.

- A. Graphitization
- B. Temper Embrittlement
- C. Softening
- D. Creep

Answer: A

NEW QUESTION # 70

_____ injection downstream of the desalter is another common method used to reduce the amount of HCl going overhead.

- A. Water
- B. Nitrogen
- C. Hydrogen
- D. Caustic

Answer: D

NEW QUESTION # 71

Dissimilar weld metal cracking can be aggravated by _____.

- A. Stress
- B. Thermal cycling
- C. Cyclic stresses
- D. Pressure

Answer: B

NEW QUESTION # 72

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