

Free PDF Quiz API - API-571–Valid Exam Score

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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There are two main types of resources for preparation of certification exams first there are the study guides and the books that are detailed and suitable for building knowledge from ground up then there are video tutorial and lectures that can somehow ease the pain of through study and are comparatively less boring for some candidates yet these demand time and concentration from the learner. Smart Candidates who want to build a solid foundation in all exam topics and related technologies usually combine video lectures with study guides to reap the benefits of both but there is one crucial preparation tool as often overlooked by most candidates the practice exams. Practice exams are built to make students comfortable with the real exam environment. Statistics have shown that most students fail not due to that preparation but due to exam anxiety the fear of the unknown. PDFBraindumps

expert team recommends you to prepare some notes on these topics along with it don't forget to Practice API-571 Exam exam dumps which been written by our expert team, Both these will help you a lot to clear this exam with good marks.

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API Corrosion and Materials Professional Sample Questions (Q149-Q154):

NEW QUESTION # 149

A loss in ductility of high strength steels due to the penetration of atomic hydrogen can lead to brittle cracking called hydrogen embrittlement. Which of the following materials is susceptible to HE.

- A. All of the above
- B. 400 Series SS
- C. Carbon steel
- D. Low alloy steel

Answer: A

Explanation:
Explanation

NEW QUESTION # 150

Changing to a more corrosion resistant and/or higher hardness material _____ improve cavitation resistance.

- A. Will not
- B. Will
- C. May not
- D. May

Answer: C

NEW QUESTION # 151

Temper embrittlement _____ be prevented if the material contains critical levels of the embrittling impurity elements and is exposed in the embrittling range.

- A. Will
- B. Can
- C. None of the above
- D. Cannot

Answer: D

NEW QUESTION # 152

Weld heat affected zone graphitization is most frequently found in the heat affected zone adjacent to welds in a narrow band, corresponding to the low temperature edge of the heat affected zone. In multi-pass welded butt joints, these zones overlap each other covering the entire cross section. Because of its appearance, this type of graphitization is called _____.

- A. Raddi
- B. Half-moon

