

API-571 Latest Exam Questions & API-571 Question Explanations

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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Certification Path

The API Corrosion and Materials certification path includes only one API-571 Certification Exam.

What is the duration of the API-571 Exam

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

API API-571 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Damage Mechanisms
Topic 2	<ul style="list-style-type: none"> • Affecting Fixed Equipment
Topic 3	<ul style="list-style-type: none"> • Refining Management

>> API-571 Latest Exam Questions <<

API-571 Question Explanations & Reliable API-571 Test Sample

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API Corrosion and Materials Professional Sample Questions (Q45-Q50):

NEW QUESTION # 45

Hardness is primarily an issue with SSC. Typical low strength carbon steels should be controlled to produce weld hardness less than _____.

- A. 225 BHN
- B. 240 BHN
- C. 200 BHN
- D. 237 BHN

Answer: C

NEW QUESTION # 46

Temper embrittlement is a metallurgical change that is not readily apparent and can be confirmed through _____.

- A. Impact testing
- B. Metallography
- C. None of the above
- D. Metallographic examination

Answer: A

NEW QUESTION # 47

Amine cracking has been reported down to ambient temperatures with some amines. _____ temperatures and stress levels _____ the likelihood and severity of cracking.

- A. Increasing increases
- B. Decreasing increases
- C. Increasing, reduces
- D. Increasing, decreases

Answer: A

NEW QUESTION # 48

Which of the following materials are subject to mechanical fatigue?

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