

# API-571 Exam Consultant, API-571 Valid Exam Simulator

## 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 API-571 Exam Syllabus Topics:

| Topic   | Details   |
|---------|---|
| Topic 1 | <ul style="list-style-type: none"> <li>• Damage Mechanisms: This domain explains various corrosion and damage mechanisms, including their characteristics, affected materials, causes, and visual appearance. It also covers where damage occurs, along with methods for prevention, mitigation, inspection, and monitoring.</li> </ul> |

Topic 2

- Terms, Definitions, and Acronyms: This domain covers the key terminology, standard definitions, and commonly used acronyms related to corrosion and materials. It ensures a clear understanding of technical language used throughout the API-571 body of knowledge.

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## API Corrosion and Materials API-571 Exam

API Corrosion and Materials API-571 Exam is related to Advanced Corrosion & Materials Professional Certifications. This exam validates the knowledge and skills of corrosion engineers, corrosion processes among specialized inspectors, chemical engineers and other professionals across the entire petrochemical industry. Highly Specialized Inspectors, Corrosion Engineers and Chemical Engineers usually hold or pursue this certification and you can expect the same job role after completion of this certification.

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## API Corrosion and Materials Professional Sample Questions (Q70-Q75):

### NEW QUESTION # 70

Which of the following is not a method used to prevent brittle fracture?

- A. Post weld heat treatment
- B. Controlling minimum operating temperatures
- C. Strict controls on selecting construction materials
- D. Thorough inspections

Answer: D

### NEW QUESTION # 71

Carbon steel and low alloy steels are subject to excessive hydrochloric acid corrosion when exposed to any concentration of HCl acid that produces a pH below \_\_\_\_\_.

- A. 5.5
- B. 4.5
- C. 5.0
- D. 6.0

Answer: B

### NEW QUESTION # 72

The presence of \_\_\_\_\_ can destabilize the scale and turn it into a nonprotective scale.

- A. HF
- B. O<sup>2</sup>

- C. HPS
- D. HPO

Answer: D

#### NEW QUESTION # 73

Stress ruptures are characterized by \_\_\_\_\_ failures and are usually accompanied by thinning at the fracture surface.

- A. None of the above
- B. Rapid
- C. Fish-mouth
- D. Tensile

Answer: C

#### NEW QUESTION # 74

SSC is a form of hydrogen stress cracking resulting from the absorption of \_\_\_\_\_ that is produced by the sulfide corrosion process on the metal surface.

- A. Atomic hydrogen
- B. Hydrogen sulfide
- C. Hydrogen chloride
- D. Sulfur dioxide

Answer: A

#### NEW QUESTION # 75

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