

API-571 Reliable Test Online & Certification API-571 Sample Questions

API 571 Exam #1 VERSION 2023/2024 VERIFIED QUESTIONS AND ANSWERS LATEST UPDATE ALREADY GRADED A

Amine corrosion refers to the general and/or localized corrosion that occurs principally on carbon steel in amine treating processes. Corrosion is not caused by the amine itself, but results from dissolved acid gases (CO₂ and H₂S), amine degradation products, heat stable amine salts and other contaminants. Amine corrosion primarily occurs in which materials?

- a) carbon steel
- b) 300 series stainless steels
- c) ferritic stainless steels
- d) nickel alloys

A
5.1.1.1.2

What is the most important factor related to mechanical fatigue of a piece of equipment?

- a) material selection
- b) equipment design
- c) operating conditions
- d) operating temperatures

B
4.2.16.3

Temper embrittlement primarily occurs in:

- a) Some low alloy steels as a result of long term exposure from 650°F to 1070°F
- b) All carbon and alloy steels as a result of long term exposure from 650°F to 1070°F
- c) All cast irons and all carbon steels above 800°F
- d) 2.25Cr-1Mo steels at 900°F

D
4.2.3.2 a)

Cracking of a metal due to stress relaxation during PWHT or in service at elevated temperatures is most often observed in heavy wall sections. This is called:

- a) stress relieving corrosion cracking
- b) reheat cracking
- c) hydrogen induced stress relieving cracking
- d) SOHIC

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API API-571 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • 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.

Topic 2

- **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.

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Certification API-571 Sample Questions & API-571 Exam Sample Questions

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

NEW QUESTION # 70

Which of the following alkanolamine systems is the least aggressive in causing amine corrosion?

- A. Monoethanolamine (MEA)
- B. Diethanolamine (DEA)
- C. Diglycolamine (DGA)
- **D. Methyldiethanolamine (MDEA)**

Answer: D

NEW QUESTION # 71

Corrosion in boiler feedwater and condensate return systems is usually the result of dissolved gases, oxygen and _____.

- A. Material properties
- B. Carbon monoxide
- **C. Carbon dioxide**
- D. H₂S

Answer: C

NEW QUESTION # 72

Carbon dioxide corrosion results when CO₂ dissolves in water to form _____ acid.

- A. Hydrochloric
- B. Sulfuric
- **C. Carbonic**
- D. None of the above

Answer: C

NEW QUESTION # 73

_____ is a loss in toughness due to a metallurgical change that can occur in alloys containing a ferrite phase, as a result of exposure in the temperature range 600° F to 1000° F.

- A. Ductile embrittlement
- **B. 885° F embrittlement**
- C. Caustic embrittlement
- D. Notch toughness

Answer: B

NEW QUESTION # 74

Reheat cracking is most frequently observed in _____ grained sections of a heat-affected zone.

- A. Course
- B. Treated
- C. Dense
- D. Fine

Answer: A

NEW QUESTION # 75

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