

Latest API-571 Exam Experience, API-571 Visual Cert Exam

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 Corrosion and Materials Professional Sample Questions (Q113-Q118):

NEW QUESTION # 113

Alloys with increased amounts of _____ show improved resistance to naphthenic acid corrosion.

- A. Molybdenum
- B. Nickel
- C. Chromium
- D. Carbon

Answer: A

NEW QUESTION # 114

(The signature mark of a mechanical fatigue failure is a "clam shell" type fingerprint:)

- A. That has concentric rings
- B. That has nonconcentric rings
- C. With intergranular cracking
- D. With microvoid coalescence

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Per API RP 571, mechanical fatigue failures are identified by the presence of beach marks or clam shell patterns on the fracture surface.

These features:

- * Appear as concentric rings
- * Represent successive crack growth increments
- * Radiate outward from the crack initiation site

This "clam shell" or "beach mark" appearance is one of the most recognizable signatures of fatigue failure.

Referenced Documents (Study Basis):

- * API RP 571 - Section on Mechanical Fatigue

NEW QUESTION # 115

Which of the following is not a primary initiating point for thermal fatigue?

- A. Notches
- B. Rounded pits
- C. Nozzle-to-shell welds
- D. Weld toes

Answer: B

NEW QUESTION # 116

If wet electrodes or high moisture content flux weld electrodes are used to weld carbon steel, hydrogen can be charged into the steel resulting in _____.

- A. Reduced tensile strength
- B. **Delayed cracking**
- C. All of the above
- D. Loss of ductility

Answer: B

NEW QUESTION # 117

The more noble material, called the _____, is protected by sacrificial corrosion of the more active material, called the _____. The more active metal corrodes at a higher rate than it would if it were not connected to the more noble metal.

- A. Alpha, Omega
- B. Anode, Cathode
- C. None of the above
- D. **Cathode, Anode**

Answer: D

NEW QUESTION # 118

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