

# API-571 Valid Exam Vce & Study Materials API-571 Review

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## 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 (CO<sub>2</sub> and H<sub>2</sub>S), 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 (Q114-Q119):

### NEW QUESTION # 114

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

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

**Answer: B**

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

Sulfidation of iron-based alloys usually begins at about:

- A. 150 oF.
- B. 250 oF.
- **C. 500 oF.**
- D. 1100 oF.

**Answer: C**

### NEW QUESTION # 116

Which of the following metals is the most anodic?

- A. Carbon Steel
- **B. Zinc**
- C. Nickel
- D. Monel

**Answer: B**

### NEW QUESTION # 117

Convection section soot blowers that have steam supplies without a steam trap can cause:

- **A. condensate corrosion.**
- B. CO<sub>2</sub> corrosion.
- C. carbonic acid corrosion.

- D. thermal fatigue.

**Answer: A**

Explanation:

In steam systems, the absence of a steam trap allows condensate to accumulate, which can lead to corrosion from oxygen and carbon dioxide dissolved in the water-a classic case of condensate corrosion.

From API RP 571 Section 5.3.3.1 (Condensate Corrosion):

"If steam lines or equipment like soot blowers do not have proper drainage or steam traps, condensate may accumulate... Corrosion results from the presence of dissolved oxygen and/or carbon dioxide in the condensate." Thus, the correct answer is Option D (condensate corrosion).

**NEW QUESTION # 118**

With hydrofluoric acid corrosion, corrosion rates increase with \_\_\_\_\_ temperatures and \_\_\_\_\_ HF concentrations.

- A. Decreasing, decreasing
- **B. Increasing, decreasing**
- C. Increasing, increasing
- D. Decreasing, increasing

**Answer: B**

**NEW QUESTION # 119**

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