

# 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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