

Types Of API API-571 Exam Practice Test Questions

API 571 PRACTICE QUESTIONS FOR API 570 EXAM QUESTIONS WITH CORRECT ANSWERS

What does "L" mean in Austenitic SS, like 304L?

- A) Has a low carbon content
- B) has a low chrome content
- C) has a low nickel level
- D) has a low toughness level
- E) is lousy steel - CORRECT ANSWER ✓✓-A

What does "H" mean in Austenitic SS, like 316 H?

- A) Has a high carbon content
- B) has a high chrome content
- C) has a high nickel level
- D) has a high toughness level
- E) is horrible steel - CORRECT ANSWER ✓✓-A

Which of the following is NOT a Ferritic Steel?

- A) 300 Series SS
- B) 400 series SS
- C) Chromes
- D) carbon steel
- E) none of the above - CORRECT ANSWER ✓✓-A

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API Corrosion and Materials Professional Sample Questions (Q130-Q135):

NEW QUESTION # 130

The "L" grade of stainless steels will sensitize if exposed more than several hours above _____ or long term above _____.

- A. 1100(o) F, 800(o) F
- B. 1000(o), 600(o) F
- C. 1200(o) F, 800(o) F
- D. 1000(o) F, 750(o) F

Answer: D

NEW QUESTION # 131

Amine corrosion occurs principally on what class of materials?

- A. Austenitic Stainless Steels
- B. Duplex Stainless Steels
- C. Low Alloy Steels
- D. Carbon Steels

Answer: D

Explanation:

API RP 945, dedicated to environmental cracking in amine units, states:

"Carbon steel is widely used in amine systems but is particularly susceptible to localized corrosion, under-deposit corrosion, and stress corrosion cracking, especially in high-pressure or rich amine environments."

"Proper control of amine quality, oxygen ingress, and temperature is critical to avoid accelerated corrosion in carbon steel equipment." Thus, carbon steels are the most commonly affected materials, making option C correct.

NEW QUESTION # 132

300 Series SS can suffer pitting corrosion, crevice corrosion and _____ in fresh, blackish and salt water.

- A. Oxidation
- B. None of the above
- C. General corrosion
- D. SCC

Answer: D

NEW QUESTION # 133

What damage mechanism can occur in wet H₂S environments and is sometimes confused with wet H₂S damage?

- A. Polythionic cracking
- B. HCl cracking
- C. Ammonia cracking
- D. Amine cracking

Answer: A

Explanation:

API RP 571 - Polythionic Acid Stress Corrosion Cracking:

"Polythionic acid SCC may be mistaken for wet H₂S damage because both involve cracking in austenitic stainless steels under certain conditions." Thus, option D is correct.

NEW QUESTION # 134

Which of the following is a critical factor for chloride stress corrosion cracking?

- A. Presence of nickel content less than 8%
- B. Presence of nickel content higher than 35%
- C. Use in an alkaline pH region
- **D. Presence of oxygen**

Answer: D

Explanation:

According to API RP 571, in the section on "Chloride Stress Corrosion Cracking (Cl-SCC)", several critical factors are outlined that contribute to the initiation and propagation of this mechanism. The document states:

"Critical factors include the presence of chlorides (even at ppm levels), oxygen, elevated temperatures, tensile stress, and susceptible materials such as austenitic stainless steels and some nickel alloys."

"Oxygen is an accelerant and promotes pitting that can lead to SCC initiation." (Reference: API RP 571, 3rd Edition, Section 4.2.2.2) Therefore, the presence of oxygen is a well-documented critical factor in Cl-SCC. It acts in conjunction with chlorides to initiate localized pitting, which then progresses into cracking. Hence, option B is the correct choice.

NEW QUESTION # 135

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