

Latest API-571 Test Questions, API-571 Valid Test Topics

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 (Q147-Q152):

NEW QUESTION # 147

With sulfuric acid corrosion, alloys such as Alloy 20 resist dilute acid corrosion and form a protective _____ film on the surface.

- A. Iron sulfate
- B. Iron oxide
- C. Chloride
- D. Sulfide

Answer: A

NEW QUESTION # 148

Protection in a boiler from boiler feed water corrosion is accomplished by:

- A. Maintaining a protective corrosion layer of magnetite (Fe_3O_4).
- B. Lowering solids content in boiler feed water to less than 50 ppm.
- C. Injecting chlorines to kill microbiological bugs.
- D. Injecting caustic to lower the pH to < 4.0 .

Answer: A

NEW QUESTION # 149

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

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

Answer: C

NEW QUESTION # 150

Fatigue cracks usually initiate on the surface at notches or _____ under cyclic loading.

- A. Stress concentrations
- B. Grinding marks
- C. Laterals
- D. Branches

Answer: A

NEW QUESTION # 151

To avoid cooling water scaling, process side inlet temperatures should be below:

- A. 212°F (100°C)
- B. 140°F (60°C)
- C. 175°F (79°C)
- D. 150°F (66°C)

