

Test API-571 Duration, API-571 Test Quiz

Quizlet API 571
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1. _____ is a change in the microstructure of certain carbon steels and 0.5 Mo steels after long term operation in the 800° F to 1100° F range.
A. Graphitization
B. Softening
C. Temper Embrittlement
D. Creep: A

2. What structure is 304 stainless steel?
A. Martensitic
B. Austenitic
C. Duplex
D. Ferritic: B

3. _____ is the result of cyclic stress caused by variations in temperature.
A. Creep
B. Thermal Fatigue
C. Cyclic Cracking
D. Stress Corrosion Cracking: B

4. General or localized corrosion of carbon steels and other metals caused by dissolved salts, gases, organic compounds or microbiological activities is called _____.
A. Flue Gas Corrosion
B. Atmospheric Corrosion
C. Cooling Water Corrosion
D. None of the Above
E. All of the Above: C

5. What structure is 410 stainless steel?
A. Martensitic
B. Austenitic
C. Duplex
D. Ferritic: A

6. The sudden rapid fracture under stress (residual or applied) where the material exhibits little or no evidence of ductility or plastic deformation is called _____.
A. 885° F Embrittlement
B. Temper Embrittlement
C. Stress Corrosion Cracking
D. Brittle Fracture: D

7. What structure is 409 stainless steel?
A. Martensitic
B. Austenitic
C. Duplex
D. Ferritic: D

8. Low alloy steels contain a maximum of _____ chrome.
A. 5%
B. 6%
C. 7.5%
D. 9%: D

9. Which of the following can be affected by 885° F Embrittlement?
A. 410 SS
B. 430 SS
C. 308 SS
D. Alloy 2205
E. A, B and D: E

10. For 5Cr-0.5Mo, what is the threshold temperature for creep?
A. 500° F
B. 800° F
C. 600° F
D. 700° F: B

11. _____ has been a major problem on coke drum shells.
A. Thermal fatigue
B. Stress cracking
C. Erosion
D. Temper embrittlement: A

12. Thermal fatigue cracks propagate _____ to the stress and are usually dagger shaped, transgranular and oxide-filled.
A. Axial
B. Diagonal
C. Transverse
D. Angular: C

13. Inspection for wet H₂S damage generally focuses on _____ and _____.
A. Weld seams
B. Nozzles
C. Trays
D. Down comers
E. A and B: E

14. _____ is a form of erosion caused by the formation and instantaneous collapse of innumerable tiny vapor bubbles.
A. Condensate corrosion
B. Cavitation
C. Dew-Point corrosion
D. Atmospheric corrosion: B

15. With CUI, corrosion rates _____ with increasing metal temperatures up to the point where the water evaporates quickly.
A. Decrease
B. Increase
C. Stay the same
D. None of the above: B

16. Which of the following metals is the most anodic?
A. Zinc
B. Carbon Steel
C. Nickel
D. Monel: A

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API API-571 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Affecting Fixed Equipment
Topic 2	<ul style="list-style-type: none">Refining Management
Topic 3	<ul style="list-style-type: none">Damage Mechanisms

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API-571 Exam topics

Candidates must know the exam topics before they start of preparation. Because it will really help them in hitting the core. Our **API-571 exam dumps** will include the following topics:

- Possess a general background on the scope, organization and use of API 571 and be able to review the standards and other references related to it.
- Understand refining industry damage mechanisms used in uniform or localized loss in thickness phenomena.
- Knowledge of general damage mechanisms applicable to the industry and be able to identify their features and functions.
- Explore damage mechanisms on high temperature corrosion including oxidation, sulfidation, carburization and metal dusting.

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API Corrosion and Materials Professional Sample Questions (Q99-Q104):

NEW QUESTION # 99

Which of the following are susceptible to thermal fatigue?

- A. SA-53 Gr B
- **B. All of the above**
- C. SA-516-70
- D. SA-182 Gr B

Answer: B

NEW QUESTION # 100

_____ cooling water outlet temperatures and/or process side outlet temperatures tend to _____ corrosion rates as well as fouling tendency.

- A. Increasing, decrease
- B. Decreasing, decrease
- **C. Increasing, increase**
- D. Decreasing, increase

Answer: C

NEW QUESTION # 101

Permanent deformation occurring at relatively low stress levels as a result of localized overheating is called _____.

- A. Temper embrittlement
- B. Stress cracking
- C. Brittle fracture
- **D. Stress rupture**

Answer: D

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