

# 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 0.3 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"><li>Affecting Fixed Equipment</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Refining Management</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Damage Mechanisms</li></ul>

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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 of 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-571 Test Quiz, API-571 Quiz

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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**

## NEW QUESTION # 102

Carbon steel and low alloy steels are subject to excessive hydrochloric acid corrosion when exposed to any concentration of HCl acid that produces a pH below \_\_\_\_\_.

- A. 4.5
- B. 6.0
- C. 5.0
- D. 5.5

**Answer: A**

## NEW QUESTION # 103

Stress ruptures are characterized by \_\_\_\_\_ failures and are usually accompanied by thinning at the fracture surface.

- A. Tensile
- B. None of the above
- C. Rapid
- D. Fish-mouth

**Answer: D**

## NEW QUESTION # 104

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