

Quiz 2026 API-571: Corrosion and Materials Professional–Updated Reliable Test Syllabus

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1.	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.	2. What structure is 304 stainless steel? A. Martensitic B. Austenitic C. Duplex D. Ferritic	B
3.	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.	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.	5. What structure is 410 stainless steel? A. Martensitic B. Austenitic C. Duplex D. Ferritic	A
6.		D

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API Corrosion and Materials Professional Sample Questions (Q148-Q153):

NEW QUESTION # 148

Which of the following weldments is most susceptible to dissimilar metal cracking when operating at high temperatures?

- A. Carbon steel to Monel 400
- B. Carbon steel to Incoloy 800
- C. Carbon steel to Inconel 625
- **D. Carbon steel to 316 stainless steel**

Answer: D

Explanation:

Dissimilar Metal Cracking (DMC) is a form of high-temperature cracking that frequently occurs in weld joints between carbon steel and austenitic stainless steel (such as Type 316 SS) due to differences in thermal expansion coefficients and mechanical properties.

From API RP 571 Section 5.2.3.1 (Dissimilar Metal Weld Cracking):

"Cracking frequently occurs in weld joints between ferritic and austenitic materials such as carbon steel to 300 series stainless steels due to thermal expansion mismatch during high temperature operation." Therefore, Option D (Carbon steel to 316 stainless steel) is the most susceptible combination and the correct answer.

NEW QUESTION # 149

Formation of a metallurgical phase known as sigma phase results in a loss of _____ in some stainless steels as a result of high temperature exposure.

- A. Ductility
- **B. Fracture toughness**
- C. Embrittlement
- D. None of the above

Answer: B

NEW QUESTION # 150

Hydrogen blisters may form as surface bulges on the ID, the OD or within the wall thickness of a pipe or pressure vessel. Blistering occurs from hydrogen generated by _____, not hydrogen gas from the process stream.

- **A. Corrosion**
- B. H₂S
- C. Hydriding
- D. Sulfur

Answer: A

NEW QUESTION # 151

Convert these temperatures - 156° C and 450° F

- A. 296° F, 246° C
- B. 304° F, 151° C
- **C. 312° F, 232° C**
- D. 284° F, 218° C

Answer: C

NEW QUESTION # 152

The rate of creep deformation is a function of the material, load and temperature. The rate of damage is sensitive to both load and temperature. Generally, an increase of about _____ or an increase of _____ on stress can cut the remaining life in half.

- A. 50(o) F, 10%
- B. 50(o) F, 15%
- C. 25(o) F, 10%
- **D. 25(o) F, 15%**

Answer: D

NEW QUESTION # 153

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