

# API-571<sup>Q&As</sup>

Corrosion and Materials Professional

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**QUESTION 1**

The best way to prevent 885° F embrittlement is to use low \_\_\_\_\_ alloys, or to avoid exposing the susceptible material to the embrittling range.

- A. Austenite
- B. Martensite
- C. Ferrite
- D. Chromium

Correct Answer: C

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**QUESTION 2**

\_\_\_\_\_ is the result of cyclic stresses caused by variations in temperature.

- A. Cyclic cracking
- B. Stress cracking
- C. Stress fatigue
- D. Thermal fatigue

Correct Answer: D

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**QUESTION 3**

Which of these materials exhibit an endurance limit below which fatigue cracking will not occur?

- A. Carbon steel
- B. 300 Series SS
- C. 400 Series SS
- D. None of the above

Correct Answer: A

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**QUESTION 4**

Thermal fatigue cracks propagate \_\_\_\_\_ to the stress and are usually dagger shaped, transgranular and oxide-filled.

- A. Axial
- B. Diagonal
- C. Transverse
- D. Angular

Correct Answer: C

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## QUESTION 5

A form of fatigue cracking in which cracks develop under the combined effects of cyclic loading and corrosion is called \_\_\_\_\_. Cracking often initiates at stress concentrations such as a pit in the surface.

- A. Cyclic cracking
- B. Corrosion fatigue
- C. Stress fatigue
- D. Stress cracking

Correct Answer: B

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