

API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

Creep damage is found in high temperature equipment operating above the _____. Fired heater tubes and components, Catalytic reactors, FCC reactors and FCC fractionator and regenerator internals all operate in or near this.

- A. Transition range
- B. MADT
- C. Creep range
- D. None of the above

Correct Answer: C

QUESTION 2

Which of the following materials is least affected by brittle fracture?

- A. Carbon steel
- B. Chromes
- C. 300 series stainless steel
- D. 400 series stainless steel
- E. All stainless steels

Correct Answer: C

QUESTION 3

With thermal fatigue, time to failure is a function of the magnitude of the stress and the number of cycles and decreases with _____ stress and _____ cycles.

- A. Increasing, Decreasing
- B. Increasing, Increasing
- C. Decreasing, Decreasing
- D. Decreasing, Increasing

Correct Answer: B

QUESTION 4

What method is most used to assure boiler feed water corrosion is not occurring?

- A. Spot UT readings at turbulent areas
- B. Profile RT at turbulent areas
- C. Profile RT at stagnant areas
- D. Laboratory analysis of boiler feedwater

Correct Answer: D

QUESTION 5

With sour water corrosion, at a given pressure, the H₂S concentration in the sour water _____ as temperatures _____.

- A. Increases, increases
- B. Decreases, decreases
- C. Increases, decreases
- D. Decreases, increases

Correct Answer: D

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