



API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

Weld heat affected zone graphitization is most frequently found in the heataffected zone adjacent to welds in a narrow band, corresponding to the low temperature edge of the heat affected zone, In multi-pass welded butt joints, these zones overlap each other covering the entire cross section. Because of its appearance, this type of graphitization is called_____.

- A. Half-moon
- B. Eyebrow
- C. Radii
- D. None of the above

Correct Answer: B

QUESTION 2

Most brittle failures occur:

- A. Below the impact transition temperature.
- B. On thinner materials.
- C. On "clean" steel.
- D. While in operation at elevated temperatures.

Correct Answer: A

QUESTION 3

Corrosion under insulation becomes more severe at metal temperatures between _____ and _____, where water is less likely to vaporize and insulation stays wet longer.

- A. 100° C, 121° C
- B. 92° C, 116° C
- C. 114° C, 132° C
- D. None of the above

Correct Answer: A

QUESTION 4



_____ significantly increases the probability and severity of blistering, HIC and SOHIC damage.

- A. Caustic
- B. Cyanides
- C. Stress
- D. Temperature

Correct Answer: B

QUESTION 5

Which of the following is not a prime candidate for thermal fatigue?

- A. Coke drums
- B. Steam actuated soot blowers
- C. Mix points of hot and cold streams
- D. 600 psig steam piping
- E. Welds joining materials having different coefficients of expansion

Correct Answer: D

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