



API-571^{Q&As}

Corrosion and Materials Professional

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QUESTION 1

Which of these cast irons are not susceptible to graphitic corrosion?

- A. Gray cast iron
- B. Black Cast iron
- C. White cast iron
- D. None of the above

Correct Answer: C

QUESTION 2

The extent and depth of decarburization is a function of temperature and _____.

- A. Pressure
- B. Material properties
- C. Exposure time
- D. Velocity

Correct Answer: C

QUESTION 3

Preventative measures to minimize the potential for brittle fracture in existing equipment are limited to controlling _____ and _____, minimizing pressure at ambient temperatures during start-up and shutdown and periodic inspections at high stress locations.

- A. Temperature, stress
- B. Stress, pressure
- C. Velocity, stress
- D. Temperature, Pressure

Correct Answer: D

QUESTION 4

The more noble material, called the _____, is protected by sacrificial corrosion of the more active material, called the _____. The more active metal corrodes at a higher rate than it would if it were not connected to the more noble metal.



- A. Anode, Cathode
- B. Cathode, Anode
- C. Alpha, Omega
- D. None of the above

Correct Answer: B

QUESTION 5

The best way to prevent failures by atmospheric corrosion is to:

- A. Have an aggressive inspection program.
- B. Reduce airborne particulates.
- C. Install and maintain appropriate coatings.
- D. Shoot all birds that cross the plant fence.
- E. Build new petrochemical facilities in a dry desert.

Correct Answer: C

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