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Corrosion and Materials Professional

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Question: 285

With steam blanketing, failure occurs as a result of _____ in the tube from the internal steam pressure at the elevated temperature.

- A . Stress risers
- B . Velocity
- C . Hoop stress
- D . Tensile strength

Answer: C

Question: 286

Carbon dioxide corrosion results when CO_2 dissolves in water to form _____ acid.

- A . Sulfuric
- B . Hydrochloric
- C . Carbonic
- D . None of the above

Answer: C

Question: 287

Protection in a boiler from boiler feed water corrosion is accomplished by:

- A . Injecting chlorines to kill microbiological bugs.
- B . Injecting caustic to lower the pH to < 4.0 .
- C . Lowering solids content in boiler feed water to less than 50 ppm.
- D . Maintaining a protective corrosion layer of magnetite (Fe_3O_4).

Answer: D

Question: 288

Susceptibility to hydrogen stress cracking _____ with _____ hardness.

- A . Increases, increasing
- B . Decreases, increasing
- C . Decreases, Decreasing
- D . Both A and C

Answer: D

Question: 289

With sour water corrosion, corrosion increases with _____ NH_4HS concentration and _____ velocity.

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

Answer: B

Question: 290

_____ is the main concern during start-up, shutdown and/or hydro testing for equipment/piping operating at elevated temperatures. This event can also occur in an auto refrigeration event in units processing light hydrocarbons.

- A . Stress fracture
- B . Carburization
- C . Spheroidization
- D . Brittle fracture

Answer: D

Question: 291

With creep, increased stress due to loss in thickness from corrosion will _____ time to failure.

- A . Increase
- B . Reduce
- C . Not affect
- D . None of the above

Answer: B

Question: 292

With hydrofluoric acid corrosion, corrosion rates increase with _____ temperatures and _____ HF concentrations.

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

Answer: A

Question: 293

To prevent hydrogen embrittlement, use lower strength steels and _____ to temper the microstructure, improve

ductility and reduce residual stresses.

- A . Alloys
- B . Preheat
- C . PWHT
- D . All of the above

Answer: C

Question: 294

The level of creep damage is a function of the material and the coincident _____ level at which the creep deformation occurs.

- A . Pressure/Temperature
- B . Pressure/Stress
- C . Temperature/Stress
- D . None of the above

Answer: C

Question: 295

A form of corrosion that can occur at the junction of dissimilar metals when they are joined together in a suitable electrolyte is _____.

- A . Galvanic corrosion
- B . Anodic corrosion
- C . Cathodic corrosion
- D . All of the above

Answer: A

Question: 296

The primary factors affecting high temperature oxidation are metal temperature and _____.

- A . Pressure
- B . Alloy composition
- C . Stress
- D . Oxygen

Answer: B

Question: 297

Sulfuric acid promotes general and localized corrosion of carbon steel. Carbon steel heat affected zones may experience severe corrosion. Acid concentration, temperature, alloy content and _____ are critical factors affecting sulfuric acid corrosion.

- A . Pressure

- B . Stress
- C . Velocity
- D . Ductility

Answer: C

Question: 298

Which of the following materials is affected by high temperature corrosion?

- A . Carbon steel
- B . 300 Series SS
- C . 400 Series SS
- D . All of the above

Answer: D

Question: 299

Many thermal fatigue cracks are filled with:

- A . chlorides.
- B . hydroslime.
- C . oxides.
- D . sulfides.

Answer: C

Question: 300

Ammonium chloride corrosion is the general or localized corrosion, often pitting, normally occurring under ammonium chloride or amine salt deposits. All commonly used materials are susceptible to ammonium chloride corrosion. A small amount of _____ can lead to very aggressive corrosion.

- A . Ammonium chloride
- B . Amine
- C . Water
- D . Salt

Answer: C

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