



**Free Questions for *API-571* by *certsinside***

**Shared by *Mercer* on *20-10-2022***

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## Question 1

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**Question Type:** MultipleChoice

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Which of the following is not a major factor associated with boiler water condensate corrosion?

**Options:**

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- A- Operating pressure
- B- Oxygen content
- C- Carbon dioxide content
- D- Process ph
- E- Temperature

**Answer:**

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A

## Question 2

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**Question Type:** MultipleChoice

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Sulfidation usually creates:

**Options:**

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- A- Uniform corrosion.
- B- Isolated pitting.
- C- Intergranular cracking.
- D- Transgranular cracking.
- E- Hard and brittle zones.
- F- Inspection nightmares.

**Answer:**

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A

## Question 3

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**Question Type:** MultipleChoice

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Sulfidation is primarily caused by:

**Options:**

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- A- Impacting particles.
- B- Sulfur compounds decomposing at higher temperatures.
- C- Sulfur compounds being created in the FCCU (Cat Cracking Unit).
- D- Elemental sulfur collecting in stagnate areas, e.g. dead legs.
- E- Operators failing to adequately control the ph of sulfur streams.

**Answer:**

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B

## Question 4

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**Question Type:** MultipleChoice

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Resistance to sulfidation increases as the:

**Options:**

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- A- Chromium content in the material increases.
- B- Nickel content in the material increases.
- C- Material's tensile strength decreases.
- D- Material's tensile strength increases.

**Answer:**

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A

## Question 5

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**Question Type:** MultipleChoice

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Mechanical fatigue is caused by:

**Options:**

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- A- Cyclic stresses occurring over a long period of time.
- B- Higher than average stresses at high temperatures.
- C- Constant stresses occurring at low temperatures.

**D-** Cyclic operating conditions of bird poop then rain, bird poop then rain, etc.

**Answer:**

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A

## Question 6

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**Question Type:** MultipleChoice

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Which of the following materials are affected by mechanical fatigue cracking?

**Options:**

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**A-** Only carbon steel

**B-** Only carbon steel and chromes

**C-** Only carbon steel, and high nickel alloys

**D-** All materials

**Answer:**

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B

## Question 7

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**Question Type:** MultipleChoice

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Atmospheric corrosion:

### Options:

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- A- Can cause either uniform or localized wall loss.
- B- Always causes localized wall loss.
- C- Always causes uniform wall loss.
- D- Is best detected using profile RT.

### Answer:

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A

## Question 8

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**Question Type: MultipleChoice**

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

**Options:**

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- 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.

**Answer:**

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C

## Question 9

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**Question Type: MultipleChoice**

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Which of the following does not increase the likelihood of atmospheric corrosion?



**Options:**

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- A- Bird poop
- B- Increasing annual rainfalls
- C- Locations where moisture is trapped
- D- Increasing operating pressures
- E- Increasing amounts of airborne contaminates

**Answer:**

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D

## Question 10

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**Question Type:** MultipleChoice

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Which of the following materials is least affected by atmospheric corrosion?

**Options:**

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- A- Carbon steel
- B- Chromes
- C- Stainless steels
- D- Copper alloyed with aluminum

**Answer:**

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C

## Question 11

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**Question Type:** MultipleChoice

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Atmospheric corrosion is of greatest concern in:

**Options:**

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- A- Dry climates in rural locations.
- B- Dry climates in industrial locations.
- C- Wet climates in rural locations.

D- Wet climates in industrial locations.

**Answer:**

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D

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