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Weldability of
Martensitic
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Weldability of
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Weldability of
Austenitic
Stainless Steel-
I

Weldability of
Austenitic
Stainless Steel-

Assignment 8

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-04-24, 23:59 IST.**

1) Preheat temperature for the welding of martensitic stainless steel depends upon **1 point**

- Composition
- Thickness of plate
- Filler
- All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of above

2) Post weld heat treatment of martensitic stainless steel weld joint is mandatory if it has carbon content **1 point**

- Less than 0.1%
- More than 0.1%
- Less than 0.2%
- More than 0.2%

No, the answer is incorrect.

Score: 0

Accepted Answers:

More than 0.2%

3) PWHT (1400-1500 °F) of the ferritic stainless steel leads to **1 point**

- Formation of Chromium carbide
- Dissolution of carbide
- Spheroidization of carbides

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- Ni
- Mn
- Si
- C

No, the answer is incorrect.

Score: 0

Accepted Answers:

Si

5) "3xx" series austenitic stainless steel with suffix 'H' is showing the presence of

1 point

- High N
- High H
- High C
- High He

No, the answer is incorrect.

Score: 0

Accepted Answers:

High C

6) Tendency for distortion is found more in weld joint of

1 point

- First generation ferritic stainless steel
- Second generation ferritic stainless steel
- Martensitic stainless steel
- Austenitic stainless steel

No, the answer is incorrect.

Score: 0

Accepted Answers:

Austenitic stainless steel

7) Sensitization in the austenitic stainless steel is primarily related to the

1 point

- Fracture due to stress corrosion cracking
- Pitting corrosion along the grain
- Sigma phase formation
- Weld decay

No, the answer is incorrect.

Score: 0

Accepted Answers:

Weld decay

8) Formation of chromium carbide in the weldment of austenitic stainless steel takes place at **1 point**

- Peak temperature during welding
- 1000°C - 1200°C
- 650°C - 850°C
- 250°C - 450°C

No, the answer is incorrect.

Score: 0

Accepted Answers:

650°C - 850°C

9) The precipitation hardenable stainless steel (PHSS) weld joint prone to cracking has matrix **1 point** of

- Martensitic
- Semi-austenitic
- Austenitic
- All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Austenitic

10) Welding process NOT preferred for welding of precipitation hardenable stainless steel is **1 point**

- GTAW
- GMAW
- Plasma arc welding
- SMAW

No, the answer is incorrect.

Score: 0

Accepted Answers:

SMAW

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