Assignment 8

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1) Weld joint of aluminium alloy generally shows liquation cracking in:
   - Fusion zone
   - Region far away from fusion boundary
   - Partial melted zone
   - Both fusion zone and HAZ

   **No, the answer is incorrect.**
   **Score: 0**
   **Accepted Answers:**
   Partial melted zone

2) Approach used to reduce the shrinkage porosity of the aluminium weld joint is:
   - Coarsening of grain structure
   - Improving the fluidity
   - Increasing the welding speed
   - Welding in ambient condition

   **No, the answer is incorrect.**
   **Score: 0**
   **Accepted Answers:**
   Improving the fluidity

3) Factor promoting the solidification cracking is:
   - Tensile residual stress
   - Compressive residual stress
   - Grain refinement
   - Fine precipitates

   **Score: 0**
   **Accepted Answers:**
   Tensile residual stress, Compressive residual stress, Fine precipitates
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5) Tensile residual stress generally develops in fusion weld joint at

- 0°
- 60°
- 90°
- 120°

No, the answer is incorrect.
Score: 0
Accepted Answers: 120°

6) Factor(s) affecting the residual stress developed in a weld joint is

- Degree of restraint
- Length of weld
- Weld groove design
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers: All of above

7) Less cold cracking tendency in steel weld joint is shown by

- Martensite
- Bainite
- Ferrite
- Same in all above three

No, the answer is incorrect.
Score: 0
Accepted Answers: Ferrite

8) The welding process which can be more problematic for liquation cracking of Al alloys

- Laser beam welding
- Electron beam welding
- GTAW
- SMAW

No, the answer is incorrect.
Score: 0
Accepted Answers:
9) High carbon steel weld joint is prone to cold cracking in
- Base metal
- Only weld metal
- Both weld metal and HAZ
- All of above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both weld metal and HAZ

10) The Hydrogen level in SMAW weld joints can be reduced to avoid hydrogen induced cracking by
- Baking of electrode
- Low welding current
- Using high welding speed
- Welding in ambient condition

No, the answer is incorrect.
Score: 0
Accepted Answers:
Baking of electrode