

X



reviewer4@nptel.iitm.ac.in ▼

Courses » Joining Technologies for metals

Announcements **Course** Ask a Question Progress FAQ

Unit 9 - Week 8

Register for Certification exam

Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Lec 36 - Weldability of aluminium alloys

Lec 37 - Solidification cracking and their control

Lec 38 - Residual Stresses in Weld Joints

Lec 39 - Cracking of Welded Joints

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) Weld joint of aluminium alloy generally shows liquation cracking in **1 point**

- 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 **1 point**

- 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 **1 point**

- Tensile residual stress
- Compressive residual stress
- Grain refinement
- Fine precipitates

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of



In association with



Funded by

Quiz :
Assignment 8

Solution for
Assignment No.
8

**DOWNLOAD
VIDEOS**

**Interaction
Session**

- 0°
 60°
 90°
 120°

No, the answer is incorrect.

Score: 0

Accepted Answers:

120°

5) Tensile residual stress generally develops in fusion weld joint at

1 point

- Weld metal boundary
 Center of the weld metal
 Base metal
 Partial refined zone

No, the answer is incorrect.

Score: 0

Accepted Answers:

Center of the weld metal

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

1 point

- 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

1 point

- 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

1 point

- Laser beam welding
 Electron beam welding
 GTAW
 SMAW

No, the answer is incorrect.

Score: 0

Accepted Answers:

SMAW

9) High carbon steel weld joint is prone to cold cracking in

1 point

- 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

1 point

- 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

Previous Page

End