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Courses » Weldability of Metals

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## Unit 7 - Week 6

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### Course outline

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- Weldability of HTLA Steel- I
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- Weldability of Cr-Mo Steel- I
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- Quiz : Assignment 6
- Solution for Assignment No. 6

Week 7

## Assignment 6

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-04-10, 23:59 IST.**

1) Weldability of the heat treatable low alloy steel is generally found lower than **1 point**

- Carbon steel
- High strength low alloy steel
- Quenched & tempered steel
- All of above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of above*

2) Which one of the following is NOT a cause of solidification cracking in welding of heat treatable low alloy steel **1 point**

- Narrow solidification temperature range
- Tensile residual stress
- Lower strength
- Lower ductility

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Narrow solidification temperature range*

3) Phases which promotes the hydrogen induced cracking in steels **1 point**

- Bainite
- Martensite
- Pearlite

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ce De

- High residual stress development
- High hardness
- Less tendency of soft phases formation
- Less tendency of martensite formation

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Less tendency of martensite formation*



5) Generally, creep embrittlement in Cr-Mo steel weldment is found in

1 point

- HAZ
- Weld metal
- Base metal
- Partial melted zone



No, the answer is incorrect.

Score: 0

Accepted Answers:

*HAZ*

6) Stress relieved Cr-Mo steel weldment as compared to as-welded condition (i.e. without stress relieving) exhibits

1 point

- Lower ductility
- Lower tensile strength
- Higher tensile strength
- Higher embrittlement tendency

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Lower tensile strength*

7) Use of austenitic stainless steel filler for welding of Cr-Mo steel results into

1 point

- Low ductility
- Low yield strength
- Increased residual stress
- Increased cracking tendency

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Low yield strength*

8) Electroslag weld joint of Cr-Mo steel generally deteriorates toughness due to

1 point

- Low heat input during welding
- High cooling rate during welding
- Coarse grain structure
- All of above

No, the answer is incorrect.

Score: 0

**Accepted Answers:***Coarse grain structure*

9) Post weld heat treatment of Cr-Mo steel results in

**1 point**

- Higher residual stress
- Lower toughness
- Lower yield strength
- All of the above

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Lower yield strength*

10) Sensitization in Cr-Mo steel weld joint occurs due to

**1 point**

- Hydrogen embrittlement
- Softening of HAZ
- Formation of Cr carbide
- Releasing of C from Cr carbide

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Formation of Cr carbide*[Previous Page](#)[End](#)