Weldability of Metals - Unit 7 - Week 6

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

- 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

- 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

- Bainite
- Martensite
- Pearlite

Score: 0
Accepted Answers:

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

- 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

- 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

- 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

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

No, the answer is incorrect.
Score: 0
9) Post weld heat treatment of Cr-Mo steel results in

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

No, the answer is incorrect.
Score: 0

Accepted Answers:
Coarse grain structure

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

- 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