

Unit 3 - Week 1: Introduction to Conventional Abrasive Processes

Course outline

How does an NPTEL online course work?

Week 0: Prerequisite

Week 1: Introduction to Conventional Abrasive Processes

Quiz : Assignment 1

● Lec 1: Introduction to Abrasive Machining and Finishing Processes

● Lec 2: Grinding Process

● Lec 3: Grinding Fluids and Its Additives

○ Feedback form

○ Solution: Assignment 1

Week 2: Sustainable Grinding Process

Week 3: Honing, Lapping and Super Finishing.

Week 4 : Conventional Abrasive Process and Surface Integrity in Abrasive Process

Week 5 : Advanced Abrasive Machining Processes

Week 6 : Hybrid Abrasive Machining Processes

Week 7 : Advanced Abrasive Finishing Processes-1

Week 8 : Advanced Abrasive Finishing Processes-2

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Assignment 1

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

Due on 2020-02-12, 23:59 IST.

1) Most of the abrasive particles are _____ in nature.

1 point

- Brittle
 Ductile
 Elastic
 Pseudoplastic

No, the answer is incorrect.
Score: 0

Accepted Answers:
Brittle

2) Among the following abrasive particles, which is a white crystalline powder?

1 point

- SiC
 Aluminum oxide
 Boron carbide
 CBN

No, the answer is incorrect.
Score: 0

Accepted Answers:
Aluminum oxide

3) What is the boiling point of silicon carbide (SiC)?

1 point

- 2977 °C
 2830 °C
 3030 °C
 It has no boiling point.

No, the answer is incorrect.
Score: 0

Accepted Answers:
It has no boiling point.

4) Among the following, the correct range for the medium grit size of the grinding wheel is?

1 point

- 30 to 60
 10 to 24
 70 to 180
 220 to 600

No, the answer is incorrect.
Score: 0

Accepted Answers:
30 to 60

5) In grinding wheel specification shellac bond is represented by?

1 point

- S
 B
 E
 V

No, the answer is incorrect.
Score: 0

Accepted Answers:
E

6) If the mesh size is 220. Then particle size in microns is?

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 69.09

1 point

7) Which of the following range of alphabet represent hard grain in grinding wheel?

1 point

- A to H
 J to P
 Q to Z
 None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Q to Z

8) A grinding wheel is marked as: 51 A 36 Z 13 V. Here what does 13 denote?

1 point

- Rubber bond
 Open structure
 Grain size
 Dense structure

No, the answer is incorrect.
Score: 0

Accepted Answers:
Open structure

9) In the cutting fluid, which additive act as an anti-foaming agents?

1 point

- Silicon oil
 Mineral oil
 Soaps
 Sulphonates

No, the answer is incorrect.
Score: 0

Accepted Answers:
Silicon oil

10) Grinding fluids are used to

1 point

- Reduce the friction between grinding wheel and workpiece
 Wash away chips
 Prevent loading of wheel
 All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above