

Workability

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1. Quiz - Key:

1. Define workability.

The ease with which a material could be formed without defects such as cracks.

2. What factors are known to influence workability?

Grain size, temperature, flow stress, state of stress etc.

3. Mention some of the common tests for determining workability.

Tensile test, hot torsion test, plane strain compression test, fracture limit test etc.

4. What is strain softening?

It is the reduction in plastic stress with continued strain due to dynamic recovery.

5. What is the use of a Gleeble simulator?

It is used for simulating hot forming conditions and carrying out hot tension or hot compression tests.