

Formability Of Metallic Materials Plastic Anisotropy Formability Testing Forming Limits Engineering Materials

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Besides the flow curve and plastic anisotropy, the formability of a material includes the capability to undergo plastic deformation to a given shape without defects. The defects have to be...

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Formability is the ability of a given metal workpiece to undergo plastic deformation without being damaged. The plastic deformation capacity of metallic materials, however, is limited to a certain extent, at which point, the material could experience tearing or fracture. Processes affected by the formability of a material include: rolling, extrusion, forging, rollforming, stamping, and hydroforming.

[Formability - Wikipedia](#)

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Metal forming involves changing the shape of the material by permanent plastic deformation. After converting non-porous metal into product form by metal forming processes, the mass as well as the volume remains unchanged. However, in the case of metal forming of porous metal, volume does not remain unchanged.

[What factors influence formability in metal forming? - Quora](#)

In general, in the metal plastic deformation process, the formability of a material is referred to as a level (amount of deformation) at which a material can be deformed before fracture occurs [29]. And the formability of the material was called in relation to the plastic working method.

[On the evaluation of spinnability of metallic materials in ...](#)

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