

Engineering aspects of creep

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Above this critical stress, the creep rate grows disproportionately faster. In the longitudinal direction, the creep compliance is relatively low and usually do not show any time-dependency in comparison to the other directions. Equations that yield a strain rate refer to the steady-state strain rate.

Creep (deformation)

With most of the engineering alloys used in construction at room temperature or lower, creep strain is so small at working loads that it can safely be ignored. The stress tending to shrink voids that must be overcome is related to the surface energy and surface area-volume ratio of the voids. Creep deformation and creep strength are a grain-size sensitive property.

Engineering aspect of creep deformation of molybdenum disilicide

The design of tungsten light bulb filaments attempts to reduce creep deformation. For all the composition, a stress exponent of between 3 and 4 was observed indicating a dislocation-recovery mechanism of creep. Nabarro—Herring creep is strongly temperature dependent.

Creep (deformation)

Relevant Specifications BS EN 10291 Metallic Materials - Uniaxial Creep Testing in Tension. Thus, one of the microstructural features of a creep failure is little or no obvious deformation to individual grains along the fracture edge. A slightly bent specimen will introduce bending stresses that will seriously affect the results.

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Creep

The location of these first voids or holes varies, often noted at the junction of three or more grains, occasionally at nonmetallic inclusions. Cross-slip can also result in jogs along the length of the dislocation, which, if large enough, can act as single-ended dislocation sources.

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