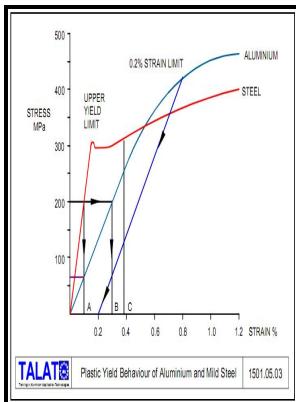


# Fatigue behaviour of two high specific modulus aluminium materials

University of Birmingham - AL 6061



Description: -

-Fatigue behaviour of two high specific modulus aluminium materials

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Notes: Thesis (Ph.D.) - University of Birmingham, School of Metallurgy and Materials.

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Tags: #Fatigue #crack #growth #resistance #and #crack #closure #behavior #in #two #aluminum #alloys #for #aeronautical #applications.

## Effect of Humidity on The Fatigue Behaviour of Adhesively Bonded Aluminium Joints

Small numbers of underloads increase the rate of growth and may counteract the effect of overloads. Lee CS, Park CG, and Chang YW.

## AL 6061

Crack equivalent concept applied to the fracture characterization of bonded joints under pure mode I loading. This approach can consider variability in values such as crack growth rates, usage and critical crack size. Park KJ, Park CG, Kim NJ, Lee CS.

## AlBeMet

As a result, all future would feature windows with rounded corners, greatly reducing the stress concentration.

## Aluminum

Changes in strength and toughness at cryogenic temperatures are more pronounced in 8090 than in conventional aluminum alloys; 8090 has a substantially higher strength and toughness at cryogenic temperatures. If we focus on humidity, water diffusion on to an adhesive joint can happen through the adhesive, the adhesive-adherend interface and by cracks or flaws in the adhesive. Although studying fatigue, the static mechanical properties are also important.

## Fatigue crack growth resistance and crack closure behavior in two aluminum alloys for aeronautical applications.

Growth of cracks is slowed by increasing tortuosity in their path, which can be accomplished by shearable precipitates and large grain sizes, which, however, contribute to a reduction in toughness.

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