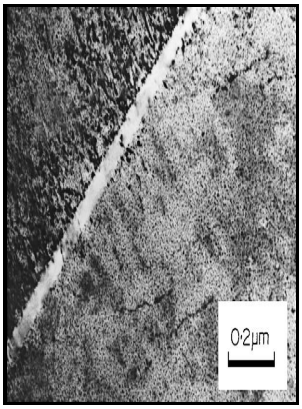
Survey of data on the fatigue properties of D.T.D. 363 and L.65 (D.T.D. 364) aluminium alloys

Aeronautical Research Laboratories - 3D printing of Aluminium alloys: Additive Manufacturing of Aluminium alloys using selective laser melting



Description: -
-survey of data on the fatigue properties of D.T.D. 363 and L.65 (D.T.D. 364) aluminium alloys
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Aeronautical Research Laboratories. Structure and materials note -- 248survey of data on the fatigue properties of D.T.D. 363 and L.65 (D.T.D. 364) aluminium alloys
Notes: Bibliographical references: p.8-10.
This edition was published in 1958

Filesize: 51.15 MB

Tags: #3D #printing #of #Aluminium #alloys: #Additive #Manufacturing #of #Aluminium #alloys #using #selective #laser #melting

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Aluminium alloys are of the main material systems receiving attention in SLM research, being favoured in many high-value applications. However, processing them is challenging due to the difficulties associated with laser-melting aluminium where parts suffer various defects.

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A number of studies in recent years have developed approaches to remedy them and reported successful SLM of various Al-alloys and have gone on to explore its potential application in advanced componentry. Research is rapidly progressing in this field, with promising results opening up a range of possible applications across both scientific and industrial sectors. It aims to develop a comprehensive understanding of the interrelation between the various aspects of the subject, as this is essential to demonstrate credibility for industrial needs.

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AM also lends potential in fulfilling demands for reducing the cost and design-to-manufacture time.

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Many sectors are now benefiting from fabricating complex structures using AM technologies to achieve the objectives of light-weighting, increased functionality, and part number reduction, among others.

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