

Effects of inclusions on mechanical properties of wrought aluminium alloys.

University of Birmingham - The Effects of Sulfide Inclusions on Mechanical Properties and Failures of Steel Components



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The Effects of Sulfide Inclusions on Mechanical Properties and Failures of Steel Components

Mazhar, Fatigue behaviour of certain high-strength, low-alloy steel sheets.

Aluminium alloy inclusions

Wan, Modern Manufacturing Technology and Equipment 2019 No. Indeed, resulfurized grades are specified using only longitudinal properties, such as in ASTM A 311; transverse properties are not discussed.

Inclusions in wrought superalloys: a review

The question for the analyst becomes whether the inclusion content of the steel was in any way causal to the failure, or was it only an eye-catching feature that reflects the natural fracture character of the material. The voltage pulses are amplified and their measured digitally.

3D printing of high

In a study on SAE 4335 with intentional impurity additions, fracture toughness was found to be greatly affected by sulfur content. Selective laser melting of high strength Al-Cu-Mg alloys: processing, microstructure and mechanical properties.

Inclusions in wrought superalloys: a review

Chatterjee, Influence of Sulfide inclusion on ductility and fracture behavior of resulfurized HY-80 steel.

Aluminium alloy inclusions

Later in the process, any carbon tools in contact with the liquid aluminium can react and create carbides.

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Wang. Investigation of inclusion and purification in alloy GH3625, Lanzhou University of Technology, Lanzhou, China, 2016. The samples at 160 °C were age-hardened for 5 h. Borides may also be present.

The effects of inclusions on mechanical properties of wrought aluminium alloys. (1976 edition)

Aluminum and its alloys oxidize readily in both the solid and molten states to provide a continuous self-limiting film. Borides, carbides, oxides, and nonmetallic particles in the melt are scavenged and then concentrated in localized regions within the cast structure. Those early applications rapidly expanded to address the requirements of a wide range of engineering specifications.

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