



Poster 17

Development of improved formability interstitial free steels



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ABSTRACT:

Improving the formability of Interstitial Free steels is the project's aim, and rapid alloy prototyping (RAP) is an effective way of tackling this endeavour. While examining the microstructure evolution, the idea is to roll out a 40 - 140g RAP DX57 cast in the mini hot and cold rolling mill and to have several Mini 2 & 1 bars fabricated and tensile tested for mechanical properties. Elements such as titanium, niobium, and nitrogen are subject to manipulation to observe any promising notable effects on the steel's mechanical properties. If small-scale production of alloys, showing representative structures and realistic results from miniature specimens, could be achieved, this would represent a significant improvement and acceleration in novel steel-grade design.

POSTER EXPOSITION



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