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## **Optimisation of CSP hot rolled structured steels based on Nb micro-alloying to reduce costs and GWP**

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All demanding modern applications such as structural, energy and automotive, require steels with an increasingly high level of strength and ductility whilst retaining good cost competitiveness as well as fulfilling ever demanding emission levels. Structural steels have traditionally focused on obtaining strength via C and Mn with some mini-mill producers utilising V micro-alloying to achieve properties. But, more stringent sustainability credentials and pressure to reduce costs as well as improved productivity are factors that are motivating producers to utilise low to medium C chemistries with reduced Mn and V where the benefits to product quality, processability and especially costs are paramount.

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