

DC Casting of Aluminium: Process Behaviour and Technology

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Synopsis

This paper reviews the physical phenomena and technology of DC casting of aluminium. The basic process, its variants, history and commercial aspects are described. The process physics such as heat and fluid flow, solidification microstructure, thermal stress, deformation and cracking are discussed. We illustrate how understanding the physical phenomena occurring during DC casting has led to modifications and new variants of the technology. This understanding has in the past ten years often been aided by the application of mathematical models, and many examples are given. The mechanisms of formation of the surface region and various mould technologies used to control this region are reviewed, including low metal level casting, hot top moulds, gas pressurised hot tops, and electromagnetic casting. Methods of controlling deformation at cast start, and cracking are discussed. Some engineering and safety aspects are considered and the article concludes with a brief discussion of future prospects.

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Karin Nielsen-Saines



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