

## SEMI SOLID PROCESSING OF ALUMINIUM ALLOYS BY SLOPE CASTING PROCESS: A REVIEW

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### ABSTRACT

Aluminum alloy Castings often contain defects due to dendritic structure morphology, it can be eliminated or modified by different techniques. Semi solid processing is one of the promising techniques to obtain dendritic free structure. Slope Casting process is a simple technique to produce semi solid feed-stroke with globular microstructure and dendrite free structure castings. slope casting process depends on different process parameters like slope length, slope angle, pouring temperature etc., to obtain desired properties in the semi solid feed stock. In this present work review of various explorations made by researchers with different process parameters of the Slope casting process done. The fundamentals of semi-solid metal processing, classification of semi-solid processing & The mechanism involved in slope casting process has been discussed.

**Keywords:** Semi solid processing, Aluminum alloys, Microstructure, Mechanical properties, Slope casting etc.

