

## عنوان مقاله:

The effect of the Microstructure and Chemical Compositions on the Glass Dies life

## محل انتشار:

دهمین کنفرانس ملی مهندسی ساخت و تولید (سال: 1388)

تعداد صفحات اصل مقاله: 14

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## خلاصه مقاله:

Cast irons are commonly used as mold material in the production of glass materials. Since growth and scaling are the main failure mechanisms that limit the surface life of glass molds, the aim of the present study was to examine the growth and scaling behavior of cast irons by the addition of alloying elements. Glass mold cast irons must exhibit both heat resistance and oxidation resistance and this dual requirement can be met by A and spheroidal types graphite structures and small amount of Mo, Ni, Sn, Cr, Mn and Cu alloying. It is found that the gray cast irons consist of Mo, Mn and Cr alloying elements have high relative oxidation resistance about 4% with respect to Sn alloyed gray cast iron. The change of graphite morphology (lamellar to spheroidal shape) increased about 7% with respect to alloyed gray cast iron.

## کلمات کلیدی:

Glass Mold, Microstructure, Gray Cast Iron, Ductile iron

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/81934>

