Combinatorial process for Bulk Metallic Glasses

OCR Number: OCR 6186

Rapid Development of BMG Alloys with High Formability

High-Throughput Characterization

a

\[ F = \frac{h}{S} \]

\[ F \propto h \]

b

Compositional Library

Gas Releasing Agents

(GrAs)

(GrAs)

Si

Steel
High-Throughput Characterization of Formability

\[ F \propto \frac{h}{S} \]

A. 

B. 

C. 

~3000 compositions
Mg-Cu-Y

Best formability composition here: \( \text{Mg}_{69}\text{Cu}_{21}\text{Y}_{10} \)

Best formability composition reported: \( \text{Mg}_{65}\text{Cu}_{25}\text{Y}_{10} \)

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