Combinatorial process for Bulk Metallic Glasses

OCR Number: OCR 6186

Rapid Development of BMG Alloys with High Formability

Combinatorial Sputtering

High-Throughput Characterization

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

A
10-30 %

Cu
30-60 %

Zr
30-55 %
High-Throughput Characterization of Formability

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

A. 

B. 

C. 

~3000 compositions
Mg-Cu-Y

Best formability composition here: Mg_{69}Cu_{21}Y_{10}

Best formability composition reported: Mg_{65}Cu_{25}Y_{10}

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