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Tailored microstructures for superplastic deformation were created by the addition of up to 0.5% Sc, 0.1% Zr and 1% Mn to an Al-4% Mg alloy (all compositions in wt.%).

### **(PDF) Use of Sc, Zr and Mn for grain size control in Al-Mg**

PDF | In this paper, we present a description of a novel high-rate plasma sputtering system that allows the control of grain size in sputtered films.

### **(PDF) Novel Sputtering Technology for Grain-Size Control**

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the strong influence of grain size on the total elongation obtained during superplastic tensile straining of 7475 aluminum. Since grain boundary sliding is essential to superplasticity, achieving fine grain sizes and restricting grain coarsening during deformation at elevated temperatures is a necessity.

### **Grain Refinement and Grain Size Control in Superplastic**

summarised survey on " Grain-size control in steel " will briefly present the essential data on the subject to the Engineers without their having to resort to a comprehensive and detailed study of this field of steel Metallurgy-often a

### **THE ENGINEER AND GRAIN-SIZE CONTROL IN STEEL**

Grain Size Control in the Weld Pool and Heat Affected Zone Using Holograms R.L.Higginson<sup>1a</sup>, M.Blackmur<sup>1b</sup>, M.Gibson<sup>2c</sup>, J.Tyrer<sup>2d</sup> <sup>1</sup> Department of Materials, Loughborough University, Loughborough, LE11 3TU, UK <sup>2</sup> Wolfson School of Mechanical and Manufacturing Engineering, Loughborough University, Loughborough, LE11 3TU, UK.

### **Grain size control in the weld pool and heat affected zone**

Recently, several genes have been shown to control grain size: GS3 and DEP1 regulate grain length  $\approx 4$  , and GW2 , qSW5 and GS5 regulate grain width  $\approx 7$  .

### **Control of grain size, shape and quality by OsSPL16 in rice**

increases with rolling as observed in all grain size distributions. Bulk texture Figure 3 (a-d) shows the {111} pole figures of the rolled samples and Fig. 4 (c-d) shows the respective Fig. 1 Trend of mean grain size with cold reduction Fig. 2 Grain size distribution of hot rolled and cold rolled samples.

### **Deformation characterization of cartridge brass**

In grain growth the particles abut one another and are not separated by a matrix phase. This paper deals with grain growth in austenite and ferrite and the coarsening of compound precipitates. The latter include both

temper carbides and other compounds used in strengthening and in control of grain size in austenite and ferrite.

### **PRECIPITATE COARSENING AND GRAIN GROWTH IN STEELS**

TIMES ON GRAIN SIZE CONTROL OF ALLOY 718 ROLLED RINGS J. Cardenas<sup>1</sup>, H. Guajardo<sup>1</sup>, Chris Harwood<sup>1</sup>, and J.A. Manriquez<sup>2</sup> ... Grain size and macro-structure were characterized as per E50TF133 and ASTM E112 specifications and average sizes reported as ASTM numbers followed by the as-large-as number.

### **EFFECTS OF LARGE REDUCTIONS AND HEATING TEMPERATURE- TIMES**

grain size, room-temperature hardness, and high-temperature flow stress. Results of the study revealed that deformation temperature and total reduction were the critical variables in determining percent recrystallization.

### **Grain Size Control in Ring-Rolled Alloy 718 - tms.org**

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The methods investigated for the control of grain size in magnesium casting alloys were (1) stirring of carbonaceous solids into the molten alloy, (2) bubbling of carbon monoxide through the melt, (3) melting in a silicon carbide crucible, and (4) treatment with lump magnesite. In the last method, the magnesite was placed deep in the molten ...

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