



Elevated Temperature Deformation of Fe- 39.8al and Fe-15.6mn - 39.4al

By J Daniel Whittenberger

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.The elevated temperature compressive properties of binary Fe-39.8 at Al and Fe-15.6Mn-39.4Al have been measured between 1000 and 1300 K at strain rates between $10(\exp 7)$ and $10(\exp 3)/s$. Although the Mn addition to iron aluminide did not change the basic deformation characteristics, the Mn-modified alloy was slightly weaker. In the regime where deformation of FeAl occurs by a high stress exponent mechanism ($n = 6$), strength increases as the grain size decreases at least for diameters between approx. 200 and approx. 10 microns. Due to the limitation in the grain size-flow stress-temperature-strain rate database, the influence of further reductions of the grain size on strength is uncertain. Based on the appearance of subgrains in deformed iron aluminide, the comparison of grain diameters to expected subgrain sizes, and the grain size exponent and stress exponent calculated from deformation experiments, it is believed that grain size strengthening is the result of an artificial limitation on subgrain size as proposed by Sherby, Klundt and Miller.

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