GARDNER

and after solidification affects the size of the cored grains, the rate of diffusion or homogenization depends on the diameter of the cored grains; as diameter decreases, the rate of homogenization increases(3).

ssure effects in the m system:

er

hardness were determined aining 0.37 to 1.26 wt.-% density decrease with inardness increases because The author's data are estigators.

ressure on alpha phase genized alloy is presented. ha-delta phase mixtures om temperature storage is observed behaviour of sented.

on

ta phase region extends the plutonium-gallium ion of appropriate quanta phase over a much wider temperature.

zed plutonium-gallium
mena. During nonequilis epsilon and epsilon
a type of segregation,
in gallium content withaving a much higher gallgrain boundary. Using
letermined that the cored
by range from 0.1 wt.-%
Ga at the centre. Corite anneal in the 400 occurs and a uniform

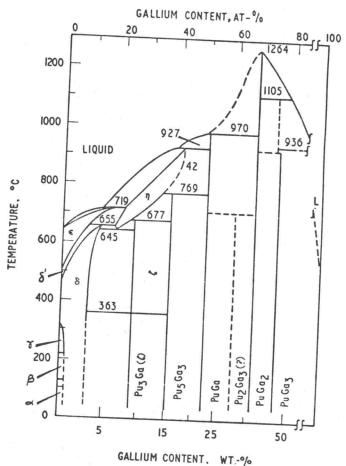


Fig 6-A Pu-Ga Phase Diagram after Ellinger(1).

1.3 The second phenomenological feature concerns metastability with respect to the application of pressure (4). In alloys containing less than 1.2 wt.-% Ga, the stabilized delta phase irreversibly transforms to alpha phase in proportion to the pressure applied. Above 1.2 wt.-% Ga, the formation of alpha