

Powder forming

R. Chandramouli
Associate Dean-Research
SASTRA University, Thanjavur-613 401

Table of Contents

1.Quiz - Key.....	3
--------------------------	----------

1. Quiz - Key

1. Why fine powders are preferred over coarse powders in manufacturing p/m parts?

Coarse powders will have larger void, which will reduce the density of the finished part. Strength and other characteristics of the components are also reduced.

2. What factors influence the sintered properties of p/m alloys?
Sintering temperature, sintering time and sintering atmosphere.

3. What gas is preferred as sintering atmosphere for ferrous alloys? Why?
Mixture of nitrogen and hydrogen. Hydrogen provides reducing atmosphere, while nitrogen provides inert atmosphere. It purges inflammable gases.

4. What is sinter forging?
It is combined sintering and hot forging operation. Combining sintering and hot forging into a single step improves sintered density and results in energy saving.