



ChemTech

## International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555  
Vol.10 No.5,pp 210-215,2017

### A Review on Sintering Technique in Pharmaceutical Sciences

Amol R .Bodke<sup>1</sup>\*Smita S. Aher<sup>1</sup>, R . B. Saudagar<sup>2</sup>\*

<sup>1</sup>Department of Quality Assurance Techniques, R. G. Sapkal College of Pharmacy, Anjaneri, Nashik- 422213, Maharashtra, India.

<sup>2</sup>Department of Pharmaceutical Chemistry, R. G. Sapkal College of Pharmacy, Anjaneri, Nashik- 422213, Maharashtra, India.

**Abstract:**In the pharmaceutical science, sintering has been described as the mechanism for the strengthening of the mechanical properties of consolidated pharmaceutical powders at elevated temperatures, for solid-bond formation during tablet compression, and for thermal curing of polymer-latex film -Coatings. The concept of sintering was applied in the investigation of the effect of heating on the mechanical properties of pharmaceutical powders. The formation of solid bonds within a powder bed during tablet compression was also studied in terms of sintering. The changes in the hardness and Disintegration time of tablets stored at elevated temperatures were described as a result of sintering. Furthermore, the sintering process has been used for the fabrication of sustained – release matrix tablets and for the stabilization of the drug permeability of film coatings derived from various pharmaceutical lattices.

**Keywords:**Sintering, Sustained release, Disintegration, Film coating.

Amol R .Bodke *et al*//International Journal of ChemTech Research, 2017,10(5): 210-215.

\*\*\*\*\*