MANUFACTURING DEFECTS IN TABLETS

- CAPPING
- PICKING & STICKING
- MOTTLING
- WEIGHT VARIATION
- HARDNESS VARIATION
- DOUBLE IMPRESSION

CAPPING

Means, partial or completely remove of top or bottom portion

of the tablet.

- Reasons:
- Excessive fines in granules.
- ✓ Defective punches & dies.
- High speed of tablet machine.
- ✓ The granules are too dry.
- Defects can be overcome by:
- ✓ Reduce the % of fines
- Defective punches should be replaced or polish before use.
- Regulate the speed of tablet machine.
- Maintain moisture content.





PICKING & STICKING

- Means, picked the material by upper punch & sticking case, stick the material to wall of the die.
- Reasons:
- ✓ Use of small qty. of lubricants
- ✓ Defected punch & dies used
- ✓ Presence of moisture content in granules.
- Defects can be overcome by:
- ✓ A new set of die & punches.
- ✓ Use of required qty. of lubricant
- ✓ Use dry granules.

MOTTLING

- Means, unequal distribution of colours on tablet surface.
- Reasons:
- ✓ Not properly mix colours with granules
- Use of different coloration of medicaments & excipients.
- Migration of dye in the granules during the process of drying
- Defects can be overcome by:
- Drying the granules at low tempr.

WEIGHT VARIATION

• Reasons:

- Granules are not in uniform size.
- ✓ No proper mixing of lubricants.
- ✓ No uniform flow of the granules from the hopper.
- ✓ Use of excess amount of fine powder.
- Defects can be overcome by:
- ✓ Use of required qty. of lubricant
- ✓ Reduce the % of fines
- Regulate the speed of tablet machine.