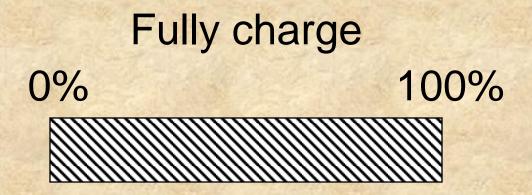
Memory Effect

pranjoto utomo

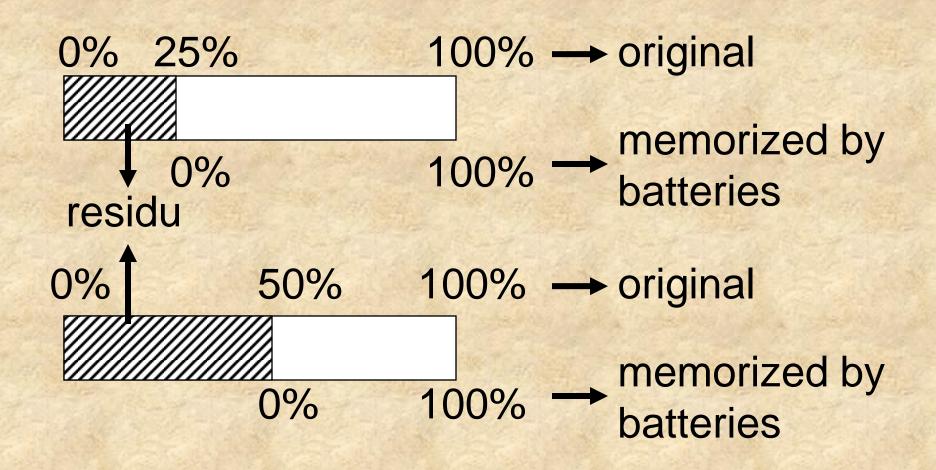
Fully charge - recharge



Fully discharge

0% 100%

Incompletely charge - recharge



 Fresh condition new nickel-cadmium cell.

 Cd(OH)₂ crystals are about 1 micron in cros section



- Exposing large surface area
- Maximum performance.

- Cell with crystalline formation.
- Crystals have grown to 50 to 100 microns in cross section

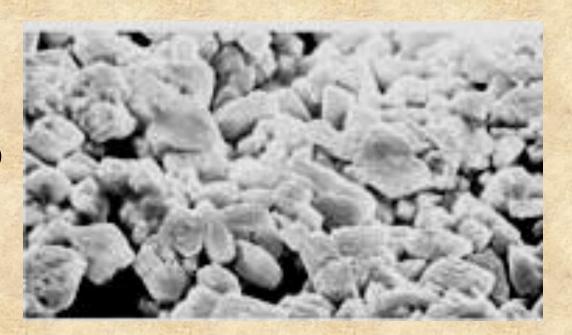


- Large portions of the active material from the electrolyte are lost
- Jagged edges and sharp corners may pierce the separator, leading to increased selfdischarge or electrical short.

Restored cell.

 Crystals are 3 to 5 microns

Almost 100% restoration.



 Exercise or recondition are needed if the pulse charge alone is not effective