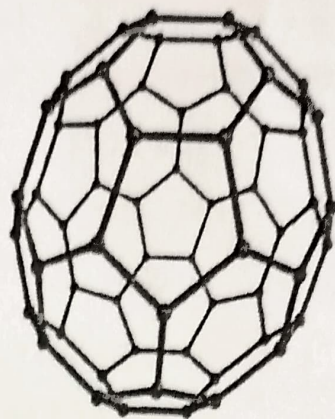
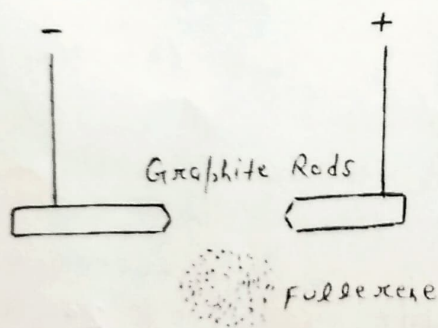


- ⇒ 30 (C=C) double bonds
- ⇒ FCC structure
- ⇒ Semiconductor
- ⇒ Pentagon sites in C₆₀ are more strained than hexagonal sites therefore at high temperature, molecules break at pentagonal sites.



SYNTHESIS:

- ⇒ By vapourising the graphite rod in helium atmosphere.
- ⇒ Evaporation of C using resistive heat.
- ⇒ When an electric spark is struck between graphite rod, a soot is produced which is mainly black & contains significant amount C₆₀-like cluster molecules such as Buckminster Fullerenes.



PROPERTIES:

- ⇒ It forms deep magenta solution when dissolved in benzene.
- ⇒ It is very tough & thermally stable.
- ⇒ It exists as a discrete molecule.
- ⇒ It can be compressed to loose 30% of its