FLECBON CORPORATION

TYPES OF CARBON GRADES

Metal graphites - Mainly collection except for low voltage applications

Copper –

- Low voltage/collection of high current
- Surface speeds up to 30ms^{-1}
- Current densities 12 to 30Acm^{-2}

Silver –

- Low voltage with good signal integrity
- Surface speeds up to 30ms^{-1}
- Current densities vary from almost zero to 30Acm^{-2}

Electrographites - Commutation & Collection (Carbon partially transformed into graphite by heating to temperatures in the range 2200°C to 2800°C)

Common range of applications:

- DC drives, & AC rings, etc.
- Surface speeds up to 50ms^{-1}
- Current densities normally in the range 4 to 16Acm^{-2}

Natural graphites - Collection

- TA exciters with steel sliprings
- Surface speeds up to 80ms^{-1}
- Current densities up to 12Acm^{-2}

Hard carbon & carbon graphites - Commutation

- Older applications or Difficult commutation
- Surface speeds up to 30ms^{-1}
- Current densities up to 10Acm^{-2}

Metal impregnated - Commutation

- High strength/ high current requirements
- Surface speeds up to 40ms^{-1}
- Current densities up to 30A/cm^{-2} Surface speeds up to 40ms^{-1}

Resin bonded - Commutation

- High contact drop (poor commutation) or low current/temperature applications
- Surface speeds up to 30ms^{-1}
- Current densities up to 8Acm^{-2}