TECHNICAL DATA

Material: Copper graphite
Content: Copper & graphite with additives
Application: Slip ring

Values (as guideline)
- Max current density: 35 A/cm² Continuously
- Peak current: >50 A/cm² 3 min at 10 m/s
- Max peripheral speed: 20 m/s
- Brush pressure: 200-300 cN/cm²

Material data (typical values)
- Bulk density: 5.4 g/cm³ DIN IEC 413.204 & ASTM C830
- Rockwell hardness: 70 HR₁₀/₆₀ DIN IEC 413.303
- Flexural strength: 85 N/mm² DIN IEC 413.501
- Specific electrical resistivity: 0.3 µΩm DIN IEC 413.402

Operational characteristics

Voltage drop (Uc) between brush & slip ring at 10 m/s

Test-rig and set-up according to IEC standard 60773

Coefficient of friction (µ) at a current density of 24.5 A/cm²

Experimental conditions
- Slip ring material: Phosphor bronze (PB1)
- Brush pressure: 225 cN/cm²
- Temperature: 45-65 °C
- Current: AC 50 Hz

This data sheet is intended to provide general information and are not guaranteed specific properties in field applications. Figures may vary depending on environment and type of application.

MSDS

According to KEMI, the Swedish Chemicals Agency, carbon brushes, including metal graphite brushes, are classified in the REACH regulation as articles and do not require a Materials Safety Data Sheet.

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