TECHNICAL DATA

Material: Copper graphite
Content: Copper & graphite powder
Application: Slip ring

Values (as guideline)
Max current density: 20 A/cm² Continuously
Peak current: 30 A/cm² 3 min at 25 m/s
Max peripheral speed: 50 m/s
Brush pressure: 200-300 cN/cm²

Material data (typical values)
Bulk density: 2.9 g/cm³ DIN IEC 413.204 & ASTM C830
Rockwell hardness: 70 HR₁₀₀₆₀ DIN IEC 413.303
Flexural strength: 30 N/mm² DIN IEC 413.501
Specific electrical resistivity: 2.5 µΩm DIN IEC 413.402

Operational characteristics
Voltage drop (Uc) between brush & slip ring at 25 m/s

Coefficient of friction (µ) at a current density of 12 A/cm²

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

Experimental conditions
Slip ring material: Phosphor bronze (PB1)
Brush pressure: 225 cN/cm²
Temperature: 55-80 °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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