ZOOM

CG677

CARBON BRUSHES FOR WIND TURBINES

IMPROVED WIND GENERATOR PERFORMANCE THANKS TO LOWER RUNNING TEMPERATURES

- Increased brush and slip ring life
- Designed for high loads, up to 20 A/cm² (and higher)
- Drop-in replacement for turbines with power output upgrade packages

A UNIVERSAL / VERSATILE GRADE

- Designed specifically for wind power applications in any climatic condition on stainless steel or bronze slip rings
- Brushes field-tested successfully to last longer on all platforms even under heavy loads
- 67 % metal content for high electrical conductivity
- Silver-tamped connections, meaning improved performance during production peaks and added resistance suited to any climatic condition including extreme ones

MERSEN PROPERTY

CG677 advantages:

- **Low voltage drop**
  - Cool operating temperature
- **Good thermal conductivity**
  - Improved heat dissipation, which leads to lower slip ring temperatures
- **Good patina and good sliding contact**
  - Optimum performance on both stainless steel and bronze rings
- **High thermal stability**
  - No material expansion
- **Low and even brush wear**
  - Balanced current distribution in all brushes, eliminating uneven brush wear and delaying brush wear trigger

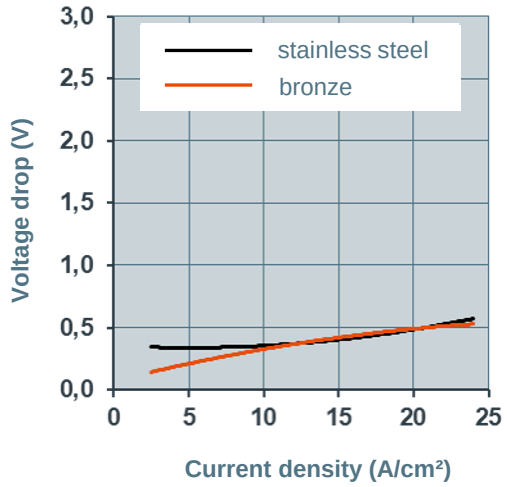
Technical characteristics:

- Relative density: 4
- Resistivity: 20 µΩ.cm / 8 µΩ.in
- Flexural strength: 65 MPa / 9,500 PSI
- Metal content: 67 %

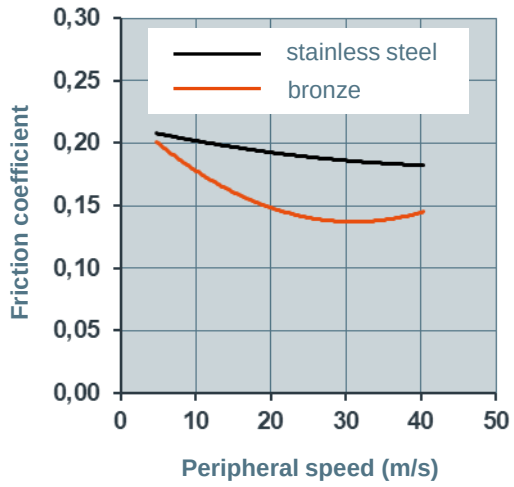
Recommended operating conditions*:

- Current density: 12-20 A/cm² / 75-130 A/inch²
- Linear speed: < 30 m/sec / 6,000 fpm
- Pressure on carbon brush: 18-25 kPa / 2.6-3.6 PSI

Peripheral speed: 30 m/s



Current density: 16 A/cm²



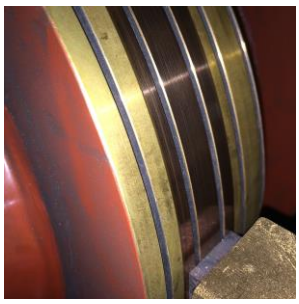
* CG677 grade has proven itself under heavy operating loads and complete spectrum of climatic conditions.

Recommended checks for optimized operation:

- adapted cooling – functional ventilation systems
- optimized groove – slip ring groove pitch
- surface conditions – slip ring roughness and run-out within specification

Further technical information @www.mersen.com. Expertise and data sheet upon request.

Good patina



Brushes wearing evenly and lasting longer

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