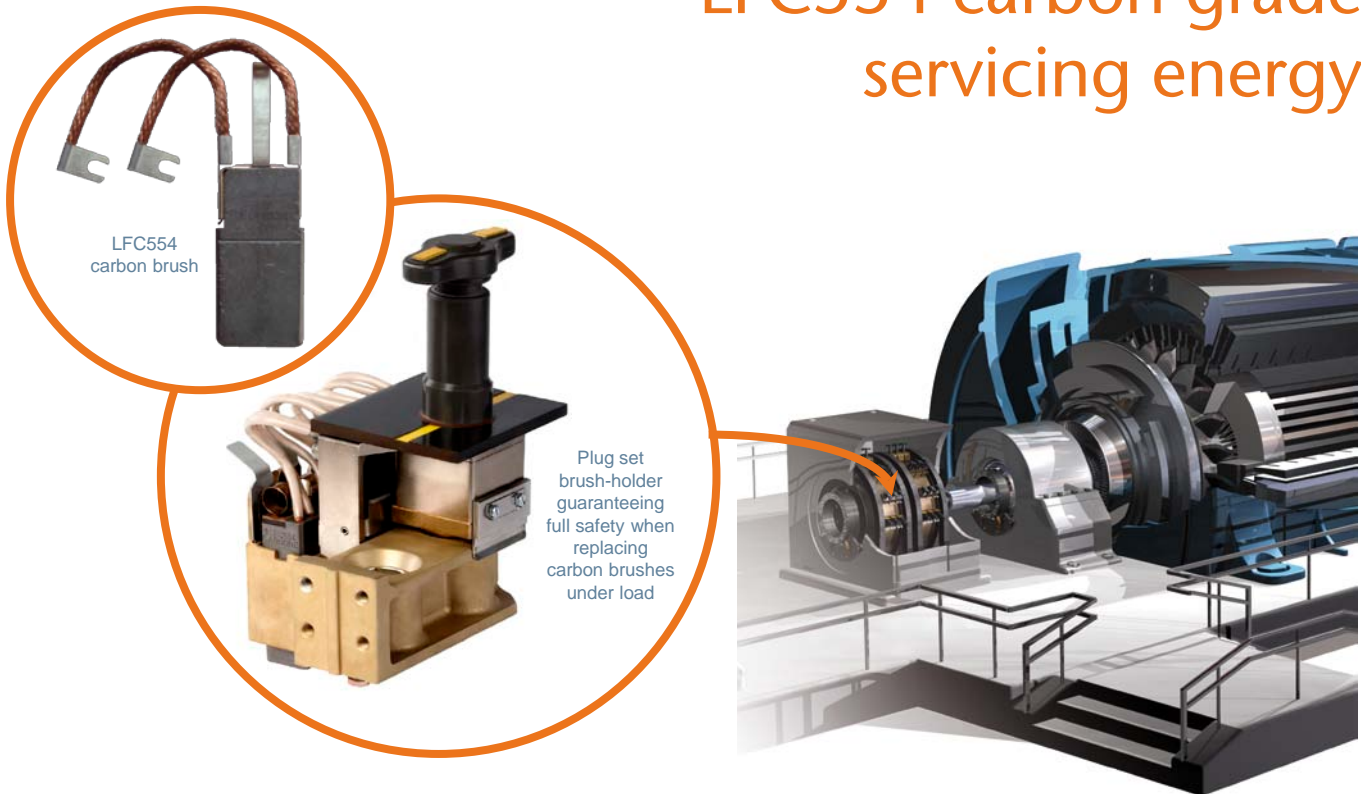


ZOOM

# TURBO GENERATOR CARBON BRUSHES

LFC554 carbon grade  
servicing energy



Mersen supports the requirements of modern power generating equipment demanding 'high speed' carbon brushes.



« *Imagine a Formula 1 doing 200 mph whilst transferring a powerful electric current! Unbelievable!* »

Our carbon brush grade is called **LFC554** (LFC = Low Friction Coefficient).

It was developed to provide: **strength**  
**flexibility**  
**reliability**

## OEM approvals

GE, Siemens, Alstom, BHEL, Melco, Toshiba, Ansaldo, L&T, Jinan Power, Harbin, STG, Dongfang, Electrosila, Elsib, Privod, Doosan, Electrotyazmash

**MERSEN**  
Expertise, our source of energy

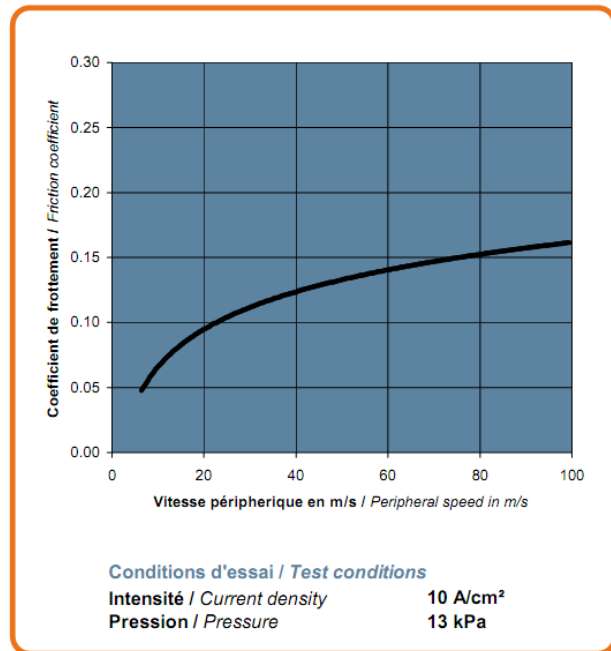
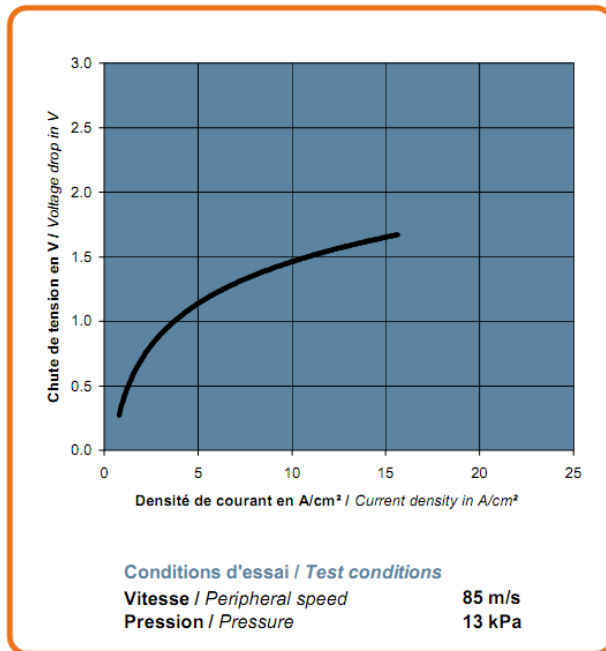
# LFC554 Carbon Brushes



## Technical characteristics

- Density: 1.26
- Resistivity: 2,000  $\mu\Omega\cdot\text{cm}$  (787  $\mu\Omega\cdot\text{in}$ )
- Flexural strength: 11 MPa

## Performance curves:



## Advantages

The advantages of the LFC554 grade are mainly related to its specific formulation and production process, producing a grade of light weight, high strength and high performance for optimum energy efficiency:

- **Excellent damping and lubricating capabilities**
  - ✓ Extended carbon brush life time (low wear)
  - ✓ Respect of the slip rings over time
  - ✓ Very low and stable friction coefficient
  - ✓ Excellent mechanical stability up to 100 m/s (328 ft/s)
  - ✓ Limited ghosting
- **Very low electrical resistance**
  - ✓ Cooler running
  - ✓ Homogeneous current distribution in the carbon brushes
  - ✓ Current density range: 7 to 13 A/cm<sup>2</sup> (45 to 84 A/in<sup>2</sup>)
  - ✓ Low and stable voltage drop

### A GLOBAL PLAYER

Mersen is a Global Expert in electrical specialties and graphite-based materials.

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[www.mersen.com/en](http://www.mersen.com/en)

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