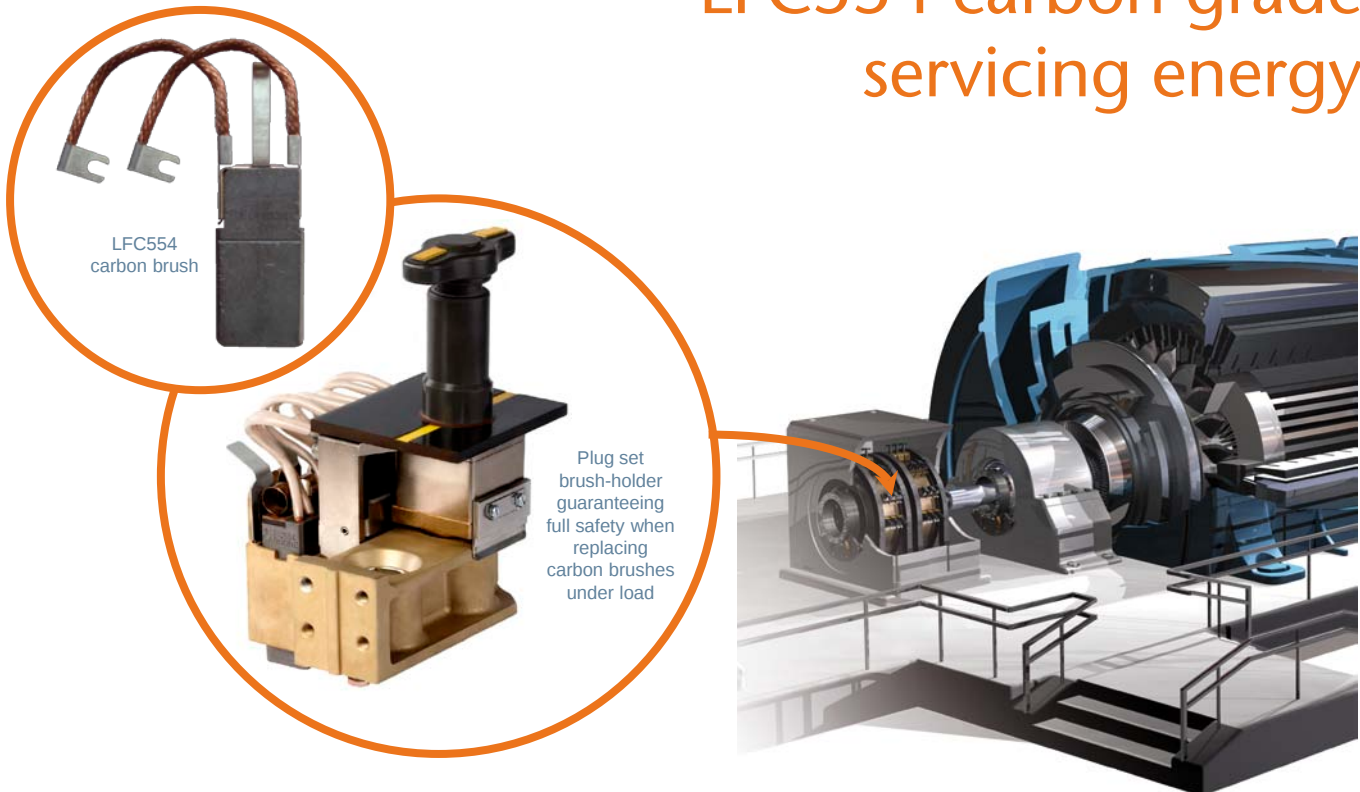


ZOOM

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

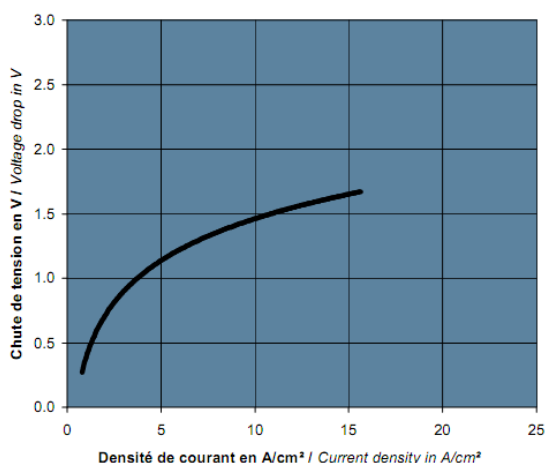
LFC554 Carbon Brushes

Technical characteristics

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

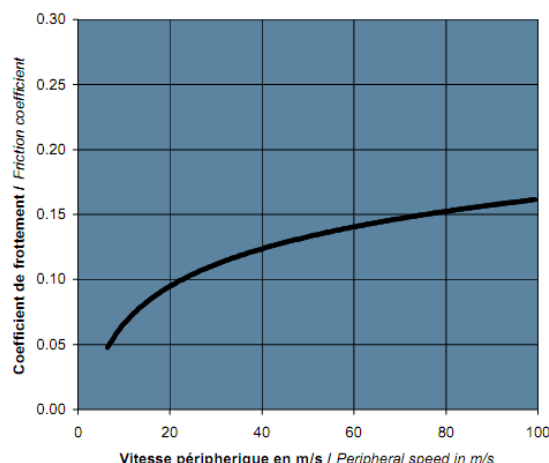


Performance curves:



Conditions d'essai / Test conditions

Vitesse / Peripheral speed 85 m/s
Pression / Pressure 13 kPa



Conditions d'essai / Test conditions

Intensité / Current density 10 A/cm²
Pression / Pressure 13 kPa

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/cm² (45 to 84 A/in²)
 - ✓ 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

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