



Electric Motor Carbon Brush

Electric motor carbon brush the role of the electric motor is to change the current direction. AC motor is to change the conductivity of the rotor coil, thereby changing the rotor pole, thereby changing the motor movement. Carbon brushes for the motor commutator or slip ring, as the export and import current sliding contact body, its electrical conductivity, thermal conductivity and good lubrication, and mechanical strength and a certain instinct for sexual sparks. Almost all of the motors are using carbon brush, it is an important component of motor parts. As many electric shavers, kitchen appliances, electric bicycle has carbon brushes, that is, DC motors (not including brushless) to be installed on the same brush.

Function of **Electric Motor Carbon Brush**

1. Will be added to the external current through the brush while rotating rotor (input current)
2. The major axis of the electrostatic charge through the brush into the earth. (Ground Brush, Output Current)
3. Change the current direction (in the commutator motor, the brush also plays for the role)

Object by the use of the motor brushes can be divided into: turbo power brush, rolling electrical power brush, power brush traction motor, AC electrical power brush, aircraft electrical power brush.

Specifications of **Electric Motor Carbon Brush**

Type	Resistivity ($\mu\Omega\text{m}$)	Shore Hardness	Bulk density (g/cm^3)	Flexural strength (MPa)	Contact pressure drop (V)	Friction coefficient	Rated current density (g/cm^2)	Allow circumference speed (m/s)	The main purpose
Electrographite									
EGOR	12	36	1.55	21	1.94	0.09	10	50	suitable for general DC motors, especially for slip-rings
CX25 EG19	22	32	1.45	9	2.40	0.18	10	41	Good filming and commutating ability particularly suitable for mill

									motors
CA35 SA35	52	66	1.60	17	2.70	0.20	10	41	beat for normal commutation service, used on mill-type motors and generators
CA40 SA40	57	64	1.58	15	3.00	0.20	15	41	good for commotion service, slightly stronger than CA45,giving longer life
CA45 SA45	63	62	1.56	11	3.80	0.20	15	41	an excellent commutation grade with longer life than grade CA50
CA50 SA50	67	60	1.55	8	3.20	0.20	15	41	a brush for use where excellent commutating ability is of primary importance
EG236S	45	57	1.60	19	2.10	0.10	12	50	medium high commutating grade for general DC applications
EG251	54	60	1.68	21	2.20	0.08	12	60	good commutating grade suitable for varying loads such as still mills
EG283	62	45	1.47	11	2.90	0.07	12	60	excellent commutating grade suitable for difficult commutating machines
ME377	60	65	1.55	13	3.00	0.11	12.5	60	excellent commutating grade for wide range of loads/low

									humidity/polluted atmospheres
T563	76	58	1.58	16.5	1.70	0.22	12	41	a treated grade of excellent commutating and riding ability. has been used in many industrial application.
N19	61	76	1.61	19.3	2.50	0.19	10	41	Recommended for low current density applications with normal commutation requirements. Useful in paper mills and on exciters with no sustained loading above 7.5A/cm ² .
N48	71	59	1.58	13.8	2.50	0.19	15.5	51	a good commutating grade with the ability to run at low current density but also operated at sustained loading to 9.5A/cm ² .
N6000	60	66	1.55	13.8	2.40	0.19	15.5	41	very versatile grade used in low or variable humidity conditions and where long period of light loading are a factor this double treated grade usually gives much improved brush life with a great film

									appearance.
CE50	46	64	1.66	25	2.50	0.20	15.5	51	Based grade ca35 treated but strong enough for general traction motors.
CN16	54	63	1.65	17	2.70	0.20	15.5	51	A treated grade combining good commutating ability and reasonable life.
CE7 DE7	55	92	1.80	35	2.50	0.15	15.5	51	A grade for use in locomotive traction motors and wheel motors in off highway vehicles.
T900	51	72	1.68	31	1.70	0.22	12.5	41	Excellent low humidity and high temperature grade used extensively in traction motors service.
G159W	30	50	1.60	30	3.00	0.15	12	51	Suitable for voltage regulator as contact.
ME778	55	70	1.83	17.5	2.30	0.14	15	51	Excellent commutating grade treated to give wide operating range for electrical locomotive and light rail traction motors.
Nature Graphite									
634	18	20	1.28	5.2	2.50	0.29	10	81	Excellent collecting ability used on high speed turbo-alternator steel slip-rings.

Resin-Bonded									
IM9101	102	39	1.85	50	3.10	0.05	8	30	Suitable for low load applications or lightly contaminated atmospheres
IM31	270	38	1.70	20.5	3.60	0.10	10	35	Suitable for low load applications or lightly contaminated atmospheres.
Metal-Graphite									
CM1S	0.32	9	5.50	68	0.24	0.11	23	30	High metal content grade for earthing and plating applications.
CM3H	0.20	10	4.30	27	0.52	0.10	16	25	Well suited for slip ring applications. Also used on D.C. machines up to 12V.
CM5H	0.35	15	3.90	23	0.86	0.09	14	30	Suitable for up to 40V DC motor and slip rings for AC machines.
CM5B	0.90	20	3.50	33	1.00	0.09	14	30	Similar to CM5H good commutating ability suitable for up to 40V DC motor and slip rings for AC machines.
CM9	3.00	25	2.80	29	1.16	0.11	11	35	Used on up to 60V DC generators/motors and slip rings for AC machines.
SM3	2.05	29	2.50	16.5	0.90	0.15	15	20	Silver graphite grade for tacho and

									micro-motors.
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Our company is a China-based **electric motor carbon brush** manufacturer and supplier with more than 30 years of production experience, which enables us to become the leader in the Chinese market. There are more than 1000 kinds of carbon brush for the customers to choose from. Our company has passed the certification of ISO9001:2000 international quality system. Due to these advantages, our products are well received by our customers from all over the world such as countries in Europe, Middle East, South America, South East and more. We are striving to develop new **electric motor carbon brush** to meet the increasing requirements of our customers. High quality products and competitive prices are the key factor to our expanding market. In addition, we can manufacture according to the customers' requirement and OEM service is also available.

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