

# SHAH ENGINEERING WORKS

GRADE	RESISTIVITY	Transverse Strength MPa	Hardness sclera scope	Density g/c.c	Contact Drop V	Coef. Of Friction	Current Density A/cm <sup>2</sup>	Normal Max Surface Speed m/s	Application
<b>ELECTROGRAPHITE</b>									
SEGOR	12	21	36	1.55	1.94	0.09	10	50	SUITABLE FOR GENERAL DC MOTORS, ESPECIALLY FOR SLIPRING
SCX25E G19	22	9	32	1.45	2.4	0.18	10	41	GOOD FILMING AND COMMUTATING ABILITY PARTICULARLY SUITABLE FOR MILL MOTORS.
SCA35S A35	52	17	66	1.6	2.7	0.2	15	41	BEST FOR NORMAL COMMUTATION SERVICE..USED ON MILL TYPE MOTORS AND GENERATORS
SCA40S A40	57	15	64	1.58	3	0.2	15	41	GOOD FOR COMMUTATION SERVICE. SLIGHTLY STRONGER THAN CA45,GIVING LONGER LIFE.
SCA45S A45	63	11	62	1.56	3.8	0.2	15	41	AN EXCELLENT COMMUTATION GRADE WITHLONGER LIFE THAN GRADE Ce50
SCA50S A50	67	88	60	1.55	3.2	0.2	15	41	A BRUSH FOR USE WHERE EXCELLENT COMMUTATING ABILITY IS OF PRIMARY IMPORTANCE.
SEG236 S	45	19	57	1.6	2.1	0.1	12	50	MEDIUM HIGH COMMUTATING GRADE FOR GENERAL DC APPLICATI ON.
SEG251	54	21	60	1.68	2.2	0.08	12	60	GOOD COMMUTATING GRADE SUITABLE FOR VARYING LOADS SUCH AS STILL MILLS.

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SEG283	62	11	45	1.47	2.9	0.07	12	60	EXCELLENT COMMUTATING GRADE SUITABLE FOR DIFFICULT COMMUTATING MACHINES.
SME377	60	13	65	1.55	3	0.11	12.5	60	EXCELLENT COMMUTATING GRADE FOR WIDE RANGE OF LOADS/LOW HUMIDITY/POLLUTED ATMOSPHERES
ST563	76	16.5	58	1.58	1.7	0.22	12	41	A TREATED GRADE OF EXCELLENT COMMUTATING AND RIDING ABILITY .HAS BEEN USED IN MANY INDUSTRIAL APPLICATIONS
SN19	61	19.3	76	1.61	2.5	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/CM2
SN48	71	13.8	59	1.58	2.5	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/CM2
SN6000	60	13.8	66	1.55	2.4	0.19	15.5	41	VERY VERSATILE GRADE USED IN LOW OR VARIABLE HUMIDITY CONDITIONS AND WHERE LONG PERIODS OF LIGHT LOADING ARE A FACTOR THIS DOUBLE

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									TREATED GRADE USUALLY GIVES MUCH IMPROVED BRUSH LIFE WITH A GREAT FILM APPEARANCE.
SCE7	52.8	39.6	77	1.8	1.6	0.1	15.5	51	A GRADE FOR USE IN LOCOMOTIVE TRACTION MOTORS AND WHEEL MOTORS IN OFF HIGHWAY VEHICLES
SDE7	61	30.3	92	1.67	1.9-2.4	0.1-0.19	15.5	51	A GRADE FOR USE IN LOCOMOTIVE TRACTION MOTORS AND WHEEL MOTORS IN OFF HIGHWAY VEHICLES.
SCE24	52.8	34.1	64	1.73	1.6	0.1	12	41	CE24 HAS BEEN USED ON ELECTRIC LOCOMOTIVE SUCCESSFULLY AND WIDELY THIS GRADE IS DESIGNED FOR HIGH SPEED LOCOMOTIVE.CE 24
SCE20	52.8	25	50	1.68	1.6	0.1	12	41	THE COMMUTATING ABILITY IS SIMILAR TO CE24,AND THE FILMING ABILITY IS GOOD,ESPECIALL Y FOR USING ON MOTORS OF ELECTRIC LOCOMOTIVE WITH OVER-VIBERATION.
SCE50	53	20	44	1.62	1.6	0.2	12	41	BASED GRADE CA35 TREATED BUT STRONG ENOUGH FOR GENERAL TRACTION MOTORS.
SCE23	58	21	85	1.65	1.5	0.2	12	41	THE COMMUTATING ABILITY IS GOOD,THE FILMING ABILITY AND LIFE IS EXCELLENT

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									ESPECIALLY FOR USING ON MOTORS OF ROLLING MILL.
SCN16	59	14	30	1.6	1.4	0.2	12	41	A TREATED GRADE COMBINING GOOD COMMUTATING ABILITY AND REASONABLE LIFE.
SDE7000	48	38	83	1.71	0.8	0.1	15.5	51	A GRADE FOR USE IN HIGH SPEED LOCOMOTIVE TRACTION MOTOR
SME778	55	17.5	70	1.83	2.3	0.14	15	51	EXCELLENT COMMUTATING GRADE TREATED TO GIVE WIDE OPERATING RANGE FOR ELECTRICAL LOCOMOTIVE AND LIGHT RAIL TRACTION MOTORS.
SH100	23	22.5	30	1.7	1.2	0.1	12	40	BEST FOR NORMAL COMMUTATION SERVICE. USED ON MILL-TYPE MOTORS AND GENERATORS
SR318	14	22.1	35	1.75	1	0.1	10	50	VERY SUCCESSFUL ON STEEL RINGS OF ALTERNATORS AND SYNCHRONOUS.
SEG12	23	18	63	1.63	0.9	0.1	10	40	COOL RUNNING EG GRADE WITH GOOD CURRENT COLLECTION, USED ON LOW VOLTAGE MOTORS
SEG236S	45	19	57	1.6	2.1	0.1	12	50	MEDIUM HIGH COMMUTATING GRADE FOR GENERAL DC APPLICATIONS
SSA4542	73	10.5	57	1.51	1.9-2.4	0.15	12	41	SIMILAR TO SA45, BUT LIGHT FILM
SN6000	60	13.8	66	1.55	2.4	0.19	12	41	VERY VERSATILE GRADE USED IN LOW OR VARIABLE HUMIDITY

