

# GRADE DATA SHEET



**634**  
Industrial



<u>GENERAL DESCRIPTION AND SPHERE OF USE</u>	<u>CLASSIFICATION</u>
Widely used on high speed Turbo Alternator sets	Natural Graphite

## PHYSICAL DATA

RESISTIVITY	<b>18.00</b>	$\mu \Omega \text{ m}$	<b>7.09</b>	$10^{-4} \Omega \text{ in}$
TRANSVERSE BEND STRENGTH	<b>6.0</b>	MPa	<b>880</b>	lbf/in <sup>2</sup>
BULK DENSITY	<b>1.28</b>	g/cm <sup>3</sup>	<b>80</b>	lb/ft <sup>3</sup>
SHORE HARDNESS	<b>16.0</b>			

Physical properties may vary from time to time as modifications are made to manufacturing techniques to maintain consistent operational behaviour; as such the values stated here are intended as a guide only.

## OPERATIONAL DATA

NORMAL CURRENT DENSITY RATING	Commutators		A/cm <sup>2</sup>		A/in <sup>2</sup>
	Rings	<b>10.0</b>	A/cm <sup>2</sup>	<b>65</b>	A/in <sup>2</sup>
NORMAL MAXIMUM OPERATING SPEED		<b>100</b>	m/s	<b>19690</b>	ft/min
NORMAL RECOMMENDED PRESSURE		<b>140 - 180</b>	g/cm <sup>2</sup>	<b>2.0 - 2.6</b>	lbf/in <sup>2</sup>
AV. COEF. OF FRICTION		<b>Low</b>			
AV. VOLT DROP PER BRUSH		<b>High</b>			

Friction	
High	0.40 and above
Medium	0.22 to 0.40
Low	below 0.22

Contact drop	
Very high	1.7 and above
High	1.2 to 1.7
Medium	0.6-1.2
Low	below 0.6

All figures quoted are typical test values obtained in our laboratories and are for guidance only.

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