

Data Sheet – Marconite

1	IDENTIFICATION	
	Product name :	Marconite conductive aggregate
	Product code :	Marconite
	Manufacturer's name :	Carbon International Ltd., UK
2	PHYSICAL & CHEMICAL PROPERTIES	
	State:	Solid
	Colour:	Dark grey
	Odour:	Odourless
	Solubility in water:	Insoluble in water. Heaver than water.
	Viscosity:	Non-viscous.
	Relative density:	890 – 900 kg/m ³
	Stability:	Stable under normal condition
	Mobility:	Non-volatile.
	3	SPECIFICATIONS
Contents:		Fixed carbon maximum 98.5%, Ash, volatile & water maximum 1.5%
Sulphur content:		Maximum 1.5%
Resistivity – Marconite aggregate:		0.001 Ω-m at 150 PSI
Resistivity – Marconite concrete: (Ratio 1part cement : 2 parts marconite)		0.040 Ω-m at 20° C
Size grading:		Maximum 10% below 0.10 mm Maximum 5% above 3.15 mm Upto 85% between 0.10 mm and 3.15 mm
ph range:		Inert, within natural range. Between 6 & 8.
Compressive strength: (Measured across 200 mm ³ cube)		20 N/mm ² after 7 days 25 N/mm ² after 28 days
Thermal stability:		Between (-) 70° C and (+) 60° C ambient temperatures.
Mixing ratio for marconite concrete:		3 parts marconite aggregates + 1 part cement.
- Recommended by manufacturer		20% water of total weight of dry mix.
- Recommended as per Indian conditions and as tested at CPRI, Bangalore		2 parts marconite aggregates + 1 part cement . 20% water of total weight of dry mix.

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4	EMBEDDING OF METAL CONDUCTORS WITH MARCONITE CONCRETE	
	Copper :	Friendly
	Cu bonded steel:	Friendly
	Steel :	Friendly
	Galvanised steel:	Should not be used
	Tin coated steel:	Should not be used
	Aluminium :	Should not be used
5	PACKING, HANDLING AND STORAGE	
	Packing :	25 kg poly bags / 1000 kgs. pallets of 40 bags.
	Handling requirements:	Normal handling
	Storage conditions:	Store in cool, well ventilated area.
6	HAZARDS IDENTIFICATION	
	Main hazards:	No significant hazard
	Other hazards:	Combustible. Exposure limit (Dust) : 10 mg/m ³ , Total dust 4mg/m ³ , respirable dust.
7	OTHER INFORMATION	
	Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with above product.