



Anti Corrosive Cements for Surface Protection
GRAPHITE & CARBON TILES / BRICKS
TECHNICAL INFORMATION SHEET

For Protective lining of Jacketed Vessels, Process Vessels, Reactors, ETP Tanks, etc

Carbon bricks is resistant to practically all corrosive inorganic and organic chemicals except those which are strongly oxidising such as oleum, concentrated chromic acid and concentrated nitric acid. They are resistant to Hydrofluoric Acid and Fluoride salts and hence extensively used in Fertilizer & Smelter Industries.

Carbon Bricks exhibit an unusual combination of properties namely,

- a) Wide range of corrosion resistance to Chemicals attack.
- b) Low reversible thermal expansion.
- c) Good mechanical strength at high temperature.
- d) High resistance to thermal shock or steep temp.
- e) High thermal conductivity.
- f) Good electrical conductivity.

Specifications of Impervious Carbon Tiles/Graphite Tiles			
		Carbon Tiles	Graphite Tiles
1.	Size	thickness 12mm Tol. (+/-)1mm .	
2.	Density	1.6 gms./cc Avg.	1.8 gms./cc Avg.
3.	Comp. Strength	> 600 kg/cm ²	600 kg/cm ² Avg.
4.	Flexural Strength	>300 kg/cm ² Avg.	300 kg/cm ² Avg.
5.	Porosity	2 % Max	2 % Max.
6.	Water Absorption	1 % Max.	1 % Max.
7.	Abradability Index	135-140 on Morgan Scale	135-140 on Morgan Scale
8.	Carbon Content	98 - 99 % Min.	98 - 99 % Min.
9.	Thermal Conductivity	4 - 6 w/mk.	120 w/mk.
10.	Ash Content	1.5 % Max.	1.5 % Max.
11.	Temp. Resistivity	Upto 180°C	Upto 180°C
12.	Chemical Duty	Suitable for all acids/ alkalies/solvent and mixtures.	

PSK Corofrac Linings Pvt. Ltd.

106, Udyog Kshetra, Mulund Goregaon Link Road, Mulund (West), Mumbai – 400 080. India.
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Note:

The properties given are approximate only and do not constitute a specification but are based on average data obtained from current production quality control tests. The properties give above are for standard bricks. Properties for beams, grids and irregular shapes will be supplied on request.

Goods supplied will be within reasonable range of variation.

Applications:

Phosphoric Acid reaction Tanks, Storage Vessels, filters, Pickling Tanks etc.

For your specific needs, please refer our Sales and Service personnel for expert advice and recommendation. We have a well knit team to assist you in selection of Carbon Bricks. For further information contact us on the numbers mentioned below.

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