widely used in various fields. However, it also has several

High Density Isotropic Carbon Blocks KMFC Made from Coal Tar Pitch*1

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separation of mesophase spheres, which are generated

1 Introduction 2 Manufacturing Method for KMFC

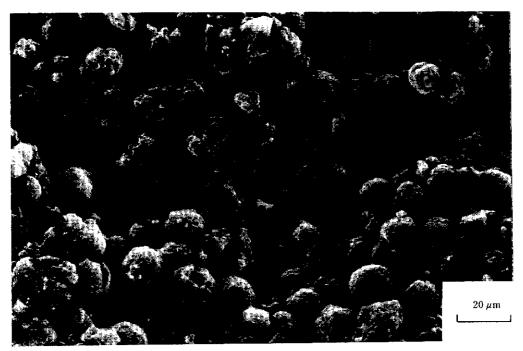


Photo 1 Scanning electron micrograph of KMFC

	in Photo 1. KMFC is a powder and is of spherical	4 Manufacturing Method for KMFC Blocks
r		
(2	to 15 µm. Expellent Self hinding Conscitu	The manufacturing method for KMFC carbon blocks in comparison with that of conventional carbon
_		

5 Chacteristics of KMFC Carbon Block	5	Chac	teristics	of KMFO	Carbon (Block
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Physical property values of KMFC carbon blocks,

6 Applications of KMFC Carbon Blocks

Major applications of KMFC carbon blocks are as fol-

about 2500°C, are shown in Table 2. Results indicate that KMEC carbon blocks have two to three times the mechanical strength value and twice the fracture (1) Electro-discharge Machining Electrodes for electro-discharge machining toughness value of general isotropic graphite currently available commercially. The anisotropic ratio in the (2) Metallurgical Use Jigs, hot press molds, continuous casting nozzles, measurement of the thermal expansion coefficient crucibles, etc. reaches 1.01, indicating nearly perfect isotropy. (3) Machine Use Danie -

Table 2 Physical properties of KMFC graphite blocks

- (4) Electrical Use
 Motor brushes, trolley shoes, etc.
- (5) Nuclear Applications