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

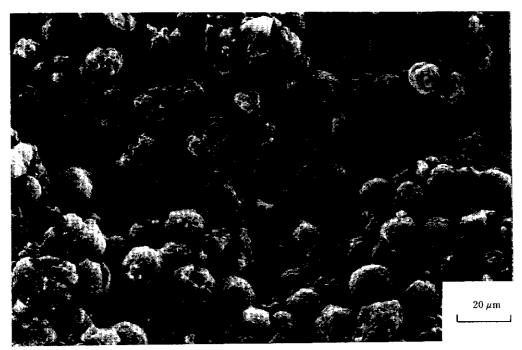
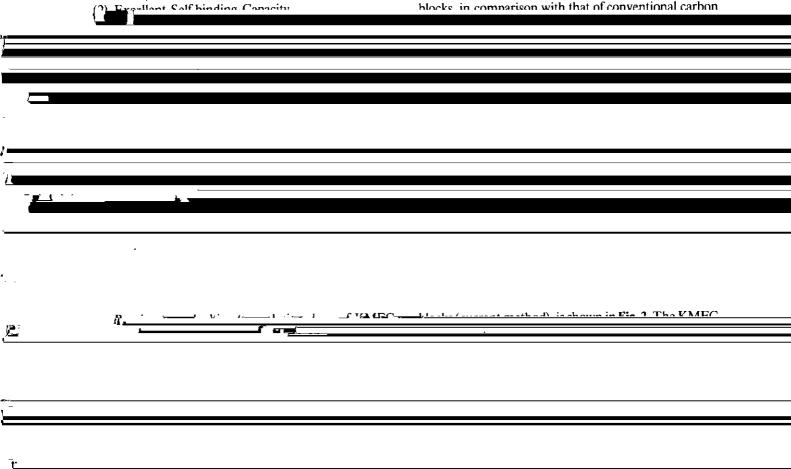


Photo 1 Scanning electron micrograph of KMFC

in **Photo 1**. KMFC is a powder and is of spherical shape with an average particle diameter of about 10 to 15 μ m.

4 Manufacturing Method for KMFC Blocks

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