

Technological Process of Oxide bonded Silicon Carbide Kiln Furniture

1. Materials and Composition

The main materials is black silicon carbide, chemical referred to as “SiC”. The technical parameters is following:

- (1) Chemical composition: SiC:97.00~98.50% ,F.C<0.30%, FeO<1.20%。
- (2) 46# (Code) black SiC (B.D) $\geq 3.12\text{g/cm}^3$ 。
- (3) All materials with difference particle comply with the standard of GB2477—83.
- (4) Allow content of Iron Alloy: coarse particle below 30# : 0% after sieving.
coarse particle below 45# : 0% after sieving.
coarse particle below 100# : 0% after sieving.
- (5) Allow content of magnetic material:12# - 240# < 0.20%。

Assistant material: special grade Suzhou soil、 Aluminum dihydrogen phosphate、 Barium carbonate、 Titanium dioxide、 Corn dextrin, etc。

2. Technological process flow chart

