

(19) (KR)
(12) (A)

(51) 。 Int. Cl.7
C04B 35/03

(11)
(43)

10-2004-0111505
2004 12 31

(21) 10-2004-7016280

(22) 2004 10 12

2004 10 12

(86) PCT/EP2003/002270

(87)

WO 2003/087011

(86) 2003 03 06

(87)

2003 10 23

(30) 10216879.2 2002 04 17 (DE)

(71) , , 11 .

(72) , , 26
, 65307 ,

, 65187 , 1

가 , -8720 , - -가 19

, -8111 - , 1

(74)

:

(54)

(:fired) ('MZA')
 ('MZ')
 MZA (sintered) / (ZrO₂)
 (periclase:MgO), (phase)
 가 , MgO-ZrO₂
 MZA (spalling resistance) (refractability)
 (dolomite), (magnesite) 가 가
 MZ (bath) MgO / (ZrO₂ × Si
 O₂) MgO (forsterite)
 , MZ / SO₂/SO₃
 offe[]' MZA /MZ Gerald Routschka 'Taschenbuch feuerfeste Werkst
 : (ISBN 3-8027-3146-8).

Routschka (packing) 800 ~ 1100
 가 NO_x 가 NO_x
 3 6
 (skeins)'
 가 CaO- (Mg₂SiO₄) /
 (phase)
 (MZA) (glass troughs) MZ
 MZ 가 ,
 가
 ZrO₂ 가 가
 가
 () (WLF) (specific thermal capacity) (C) /
 (volume-referred thermal capacity) (C R) ,

MZA

-

- , 50%

- (1m²/s) / 가 .

MZA C₂S- CaO 가 SO₃ 가 C₂S .

SiO₂ (1.0) , 0.5 . (/ , SiO₂)

CaO (CaO .) 2

MZA . (Routschka, op.)

5 ~ 35 % ZrO₂ , 65 ~ 95 % MgO 5 %

2%

DIN EN 993-Part 1 11~15 , 12~14

1700 가 , 3.20 ~ 3.55g/cm³ , 3.25 ~ 3.40g/cm³
(apparent density) DIN EN 993-Part 1

DIN EN 993-Part 5 가 50 ~ 150N/mm² ,
70 ~ 85N/mm² .

Ber. Dtsch. Keram. Ges. [] 34 (1957), 183-189 'Class'
3~4 W/Km . (1000) .

(Baddeleyite)
<0.5mm , 0.1~0.5mm < 0.1mm

, > 1mm 1/2~2/3 6mm , 가 ,

/ (batch)가 .

	1	2
(MgO) <1mm	30%	20%
(MgO) <1~6mm	50%	50%
ZrO ₂ 0.1 ~ 0.5mm	0	15
ZrO ₂ < 0.1mm	20	15
(g/cm ³)	3.32	3.46
가 ()	1750	1750

가	(g/cm ³)	3.35	3.50
	(%)	12.5	14
	(N/mm ²)	55	80

(57)

1.

2.

1 , 1.0 SiO₂

3.

1 , 2.0 CaO

4.

1 , 5 ~ 35 % ZrO₂ , 65 ~ 95 % MgO 5 %

5.

1 , 2%

6.

1 , 11 ~ 15 %

7.

1 , 가 (apparent density) 3.20 ~ 3.60g/cm³

8.

1 , 가 (cold pressure strength) 50 ~ 150N/mm²