

Ceramic electrotechnical materials.
Classification and technical requirements

20419-83

29.035.30
34 9300

01.01.85

100 ,

1.

1.1.

- 100— () ;
- 110— (1_2O_3 30%);
- 110.1— ;
- 111— ;
- 112— ;
- 120— (1_2O_3 30% 50%);
- 130— (1_2O_3 50%);
- 130.1— ;
- 200— (1_2O_3 50%);
- 210— () ;
- 220— ;
- 220.1— ;
- 300— , , ;
- 310— ;
- 340— , , ;
- 340.1— ;
- 340.2— - ;
- 350— -
- 350.1— () 3000;
- 351— , , ;
- 351.1— () 3000;
- 400— , () ;
- 410— ;
- 420— ;
- 430— ;

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- 500— ;
510—512— ;
520— ;
530— ;
- 600— (-);
610 — (1_2O_3 50 % 65 %);
620 — (1_2O_3 65 % 80 %);
620.1— (1_2O_3 72 % 77 %);
- 700— ();
780— (1_2O_3 80 % 86 %);
786— (1_2O_3 86 % 95 %);
786.1— (1_2O_3 86 % 95 %);
795— (1_2O_3 95 % 99 %);
799— (1_2O_3 99 %).
(, . 3).

2.

2.1.

2.2.

.1—3

*

| | 100 | | | | | | | 200 | | | 400 | | |
|--|---------|-------|------|------|------|------|-------|------|---------|-------|------|-----|---------|
| | 110 | 110,1 | 111 | 112 | 120 | 130 | 130,1 | 210 | 220 | 220,1 | 410 | 420 | 430 |
| 1. , -3, | 2,45 | | — | 2,7 | — | 2,85 | 2,8 | — | 2,8 | — | | | |
| 2. -3, | 2,3* | 2,2* | 2,3* | 2,4* | 2,5* | 2,7* | 2,5* | 2,6* | | 2,1* | 2,7* | 1,8 | |
| 3. , %, | 0,0 | 1,5* | 0,0 | | | | 0,7* | 0,0 | | 0,5* | | 1,5 | |
| 4.) (- | * | - | * | | | | — | * | | - | | | |
| 5. : - - | 60* | 80* | 40* | 80* | 110* | 140* | 180* | 90* | 120* | | 60* | 80* | 40* |
| | 70 | 100 | — | 100 | 140 | 160 | 200 | | | | | | |
| 6. : - - | 30 | 45 | | 45 | 55 | 60 | 70 | - | 45 | | 25 | | |
| | 35 | 55 | — | 55 | 65 | 70 | 90 | — | 60 | | | | |
| 7. , , | — | | | | | | | 500 | 600 | - | 300 | | |
| 8. , / 2, | 1,8 | | 1,3 | 2,2 | | 2,5 | 2,7 | 2,2 | 2,5 | | 1,8 | 2,0 | 1,3 |
| 9. , 10 ³ , | 60 | 70 | - | 70 | 80 | 100 | | 60 | 80 | | 90 | | |
| 10. - ⁻¹ 10 ⁻⁶ , : | | | | 3,0 | 3,0 | 5,0 | | 5,0 | 5,0 | 5,0 | 0,5 | 3,0 | |
| - 20' 100° | 3,0 | 6,0* | | 8,0 | 6,0* | 7,0* | 5* | 6,0 | 9,0 | 6,0 | 2,0 | 5,0 | 3,0-6,0 |
| - 20° 600° | 4,0 7,0 | | | 3,0 | 5,0 | 5,0 | | 5,0 | 5,0 9,0 | | 1,0 | 3,0 | |
| | | | | 8,0 | 7,5 | 8,0 | 6 | 8,0 | | | 3,0 | 6,0 | 4,0-7,0 |

| | 100 | | | | | | | 200 | | | 400 | | |
|--|------------------|------------|------------------|------------------|------------|------------|------------|------------------|-----------------|-------------------|-------------------|-------------------|---------|
| | 110 | 110,1 | 111 | 112 | 120 | 130 | 130,1 | 210 | 220 | 220,1 | 410 | 420 | 430 |
| 11. - - 20° 100° | 800 900 | | | | | | 800-900 | 800 900 | | | 800 1200 | 800 1000 | 800-900 |
| 12. X, 20° 100° | 1,0 2,5 | | | 1,4 2,5 | 1,2 2,6 | 1,5 3,0 | 1,5 3,0 | 1,0 2,5 | 2,0 3,0 | | 1,5 2,5 | 1,0-2,5 | |
| 13. - - 20° 100° | 0,6 1,1 | 0,6 1,4 | 0,6 1,1 | | 0,8 1,4 | 0,1 1,7 | | 1,0 1,1 | | | 0,4 0,6 | 0,5-1,7 | |
| 14. At, | 160 | 150 | — | 150 | 160 | 150 | 170 | 80 | | 100 | 250* | 200* | — |
| 15. - 50 | 25* | 30* | | 20* | 30* | 20* | 30* | 20* | | | 10* | 20* | |
| 16. 50 | 6,0 7,0 | 5,0 7,0 | | 5,0 7,0 | 6,0 7,0 | 6,0 7,5 | 7 8,5 | 5,0 7,0 | | | 4,0 6,0 | | |
| 17. tg 5 10 ³ 50 | 25 | | | 25 | | 30 | 20 | 25 | 5 | | 25 | 10 | |
| 18. p _v 20° 200° 600° | 10 ¹³ | | 10 ¹¹ | 10 ¹³ | | | | 10 ¹³ | | | 10 ¹⁴ | 10 ¹¹ | |
| | W | | 7* | 10 ⁸ | | | | 10 ¹⁰ | | W | 10 ¹³ | 7* | |
| | 10 ⁴ | | | | | | | 10 ⁵ | 10 ⁵ | 10 ⁴ * | 10 ⁹ * | 10 ⁴ * | |
| 19. p _s | 10 | | | | | | | | | | 10 ¹² | 10 | |

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- 20
1. 110, 110,1, 120,
 2. 210 ()
 3. 110, 1000 ,

2

| | 300 | | | | | | | |
|---|-------------------|--------------|-------------|--------------|------------------|---------------|------------|-------|
| | 310 | 340 | 340,1 | 340,2 | 350 | 350,1 | 351 | 351,1 |
| 1. , -3, | 3,5* | 3,0* | | 5,0* | 4,0* | 5,0* | 4,0* | 5,0* |
| 2. , %, | 0,0* | | | | | | | |
| 3. () | | | | | | | | |
| 4. , , , - | 70 | | | | 50 | | | |
| 5. , -1 10 ⁶ , 20 ° 100 ° | 6,0 8,0 | — | | 6,0 8,0 | — | | 6,0 8,0 | |
| 6. 20 ° 100 ° , -1 -1, | 700 800 | — | | | | | | |
| 7. 20 ° 100 ° X, -1 -1, - | 3,0 4,0 | | | | | | | |
| 8. 50 , , -1, | 8* | 6* | | | 2* | 2,5* | 2* | 2,5* |
| 9. : 50 1 | 40 100* | 100 1000* | 130 150* | 800 1000* | 350 3000* | 1800 2500* | 3000* | 8500* |
| | — | | 130 150 | 800 1000 | | 1800 2500 | | 8500 |
| 10. 1 , tg 5 10 ³ | 6,5 | — | 1,0 | 3,0 | — | 5,0 | — | 30 |
| 11. 20 ° P _v , , - | 10 ^{12*} | 11* | | | 1 ₀ * | | | |
| 12. P _S , | — | | 10 | — | | | | |

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| | 500 | | | | | 600 | | | 700 | | | | |
|--|------------|------------|------------|------------|------------|----------|------|------------|---------|------|-------|---------|------------|
| | 510 | 511 | 512 | 520 | 530 | 610 | 620 | 620,1 | 780 | 786 | 786,1 | 795 | 799 |
| 1. , -3, | 2,2 | — | | 2,1 | — | | | 3,4 | — | | 3,5 | 3,8 | 3,9 |
| 2. -3, | 1,9* | | 1,8* | 1,9* | 2,1* | 2,6* | 2,8* | 2,9* | 3,2* | 3,4* | 3,5* | 3,7* | 3,8* |
| 3. , %, | 30* | 20* | 40* | 20* | 30* | 0,0* | | — | 0,0* | | | | |
| 4.) (- | — | | | | | * | | | | | | | |
| 5. , , - | 35* | 25* | 15* | 40* | 30* | 120* | 150* | 240* | 200* | 250* | 280* | 300* | |
| 6. , | — | | | | | | | | | | | | |
| 7. , , | — | | | | | | | | | | | | |
| 8. -2, | 1,4 | 1,0 | 0,8 | 1,4 | 1,0 | 3,0 | 3,5 | | 3,8 | 4,0 | | | |
| 9. , 10 ³ , | — | | | 40 | — | 100 | 150 | | 200 | 220 | | 280 | 300 |
| 10. -1 10 ⁶ , - 20' 100° - 20° 600° | 3,0 5,0 | 3,0 6,0 | 3,0 5,0 | 1,5 3,5 | 3,5 5,0 | 3,0 6,0 | | 4,0 6,0 | 4,5 7,0 | | | 4,5 6,5 | |
| | 3,0 6,0 | 4,0 6,0 | 3,0 6,0 | 2,0 4,0 | 4,0 6,0 | 4,0 7,0* | | 5,0 8,0 | 5,5 8,0 | | | | 6,5 8,0 |
| 11. , -1 -1, - 20° 100° | 750 850 | | 750 900 | | 800 900 | 850 1050 | | | | | | | |

| | 500 | | | | | 600 | | | 700 | | | | | |
|---|------------|------------|------------|------------|------------|------------|-------------|------------|-----------|--------|-----------|-------------|-------------|-------------|
| | 510 | 511 | 512 | 520 | 530 | 610 | 620 | 620,1 | 780 | 786 | 786,1 | 795 | 799 | |
| 12. $X,$ 20' 100' | 1,0 1,7 | 1,3 1,8 | 1,0 1,5 | 1,0 1,8 | 1,4 2,0 | 2,0 6,0 | 6,0 15,0 | — | 10 16 | 14 24 | | 16 28 | 19 30 | |
| 13. $-$ 20° 100° | 0,7 1,0 | | | 0,7 1,1 | 0,8 1,2 | 1,1 1,6 | 2,0 3,5 | — | 2,5 4,0 | | | 3,0 4,5 | 3,5 5,0 | |
| 14. $At,$ | 150* | 200* | 250* | 300* | 350* | 150* | | 170* | 140 | | | 150 | 180 | |
| 15. 50 | | | | | | 17 | 15 | 20* | 10* | 15* | | | 17* | |
| 16. 50 | | | | | | | 6,5 8,5 | 7,0 8,5 | 7,0 9,0 | | | 8,0 10,0 | 9,0 10,0 | 9,5 10,0 |
| 17. 50 | | | | | | — | | | 1,0 | 0,9* | — | 0,5* | 0,2* | |
| 18. P_v 20° 200° 600° | | | | | | | | | 10^{13} | | 10^{14} | | | |
| | 10^{9*} | | | | 10^* | 10^{11*} | | | 10^{12} | | 10 | 10^{12} | | |
| | 10^5 | | | | 10^6 | 10^{6*} | | 10^{7*} | 10^7 | 10^8 | 10^6 | 10^8 | | |
| 19. $P_s,$ | | | | | | | | | 10 | | — | | | |

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(, . 1, 2, 3).

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1.

2.

27.01.83 429

3.

3567—82,

672-1—80,

672-3—84

4.

20419—75

5.

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11-12—94)

5—94

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6.

1988 . (

11-85, 12-87, 3-89)

1, 2, 3,

1985 .,

1987 .,