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621.315

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50- . ,, 1000 . – ( ) , - .

( )

1954 . . 1960- . ( ) ,

( ),

Araldit (CIBA), n- ikote (Schell), ks ( ), idian ( ),  
 ( ), ilox ( ) .

900...1000

330 .

SiO<sub>2</sub> l<sub>2</sub> 3.

SiO<sub>2</sub>

2,5...3

, 3...4

1 -GEIGY Schell.

[1, 2].

( ) - ,

= 40...80 / ,  
 - 4,5 /24 ,

- 700 ,

tg = 10<sup>-4</sup>,

v = 10<sup>17</sup> . ,

- 12...30 ( 298 ),

- 100...500 % (296 ),

16...20 (296 ),

- 55...56°.

( )

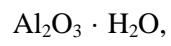
80- . .

Rosen-

thal.

[3].

( , ( , ), ( 4 ).



[4].

5...20

( , - ).

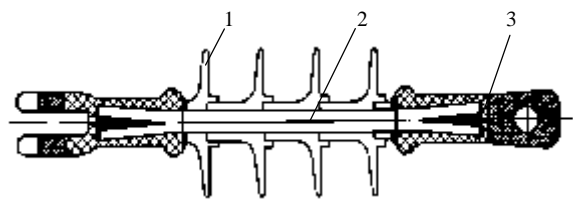
General Electric 1959 .

Rosenthal

LTD

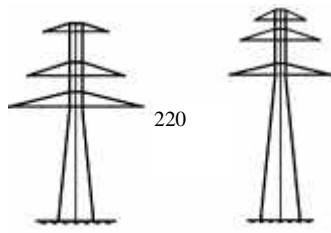
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 ...30 ,  
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 • ( ) ;  
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 . 20 %  
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 15...30 %  
 100 400  
 8...15 1 , - 40...100 .



. 1. 1- ; 2- ; 3- :

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 ( ) .  
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220



400



2.

220

400

( .2).

— 1960...1975 .,

— 1980- . 1990-

1960...1975 .

1970- — 1980-

1986 .

135

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( 1/10 ),

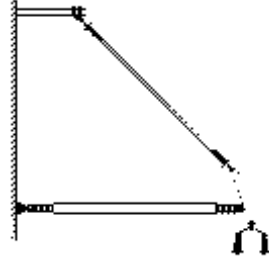
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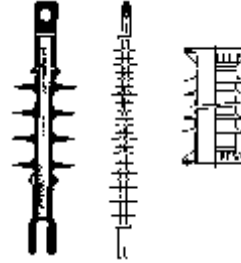
( ; );

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( . 3, 4). ; ( ) ; ( )



. 3.

220



. 4.

: 1 -

; 2 -

; 3 -

1980-

500

230

1994

20

50

[5],

( , ),

( 15...20 ).



(Al<sub>2</sub>O<sub>3</sub> · H<sub>2</sub>O)

( )

[6, 7].



[8].

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