

621.921.34; 622.24.051

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,

,

1.

«Longyear» () 1950–1952 ().
 : «Boart Longyear», «JKS Boles» (), «Djoy» (), «Atlas » (), «Tone Boring» (), «Diamond Boart» (), «Smith» ().
 () Wire Line 1,5 - 2
 – () (1000 ·⁻¹) [1].
 2 ,
 10–30 % [2].

80 %

250/200 – 800/630

VIII XII

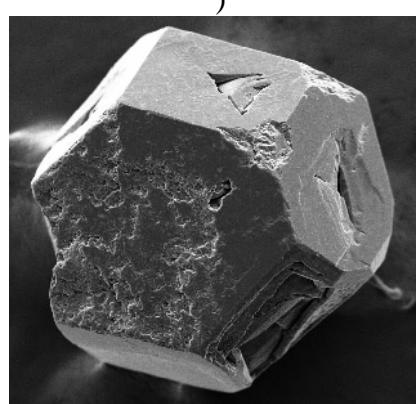
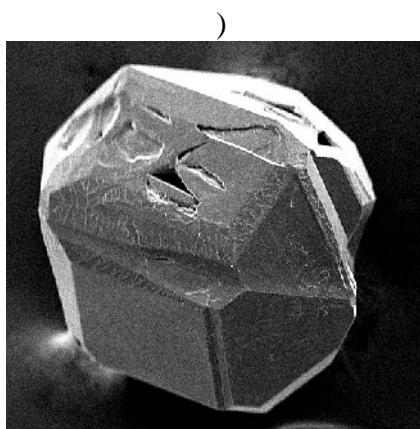
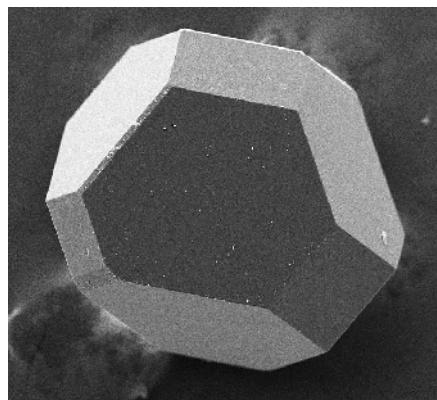
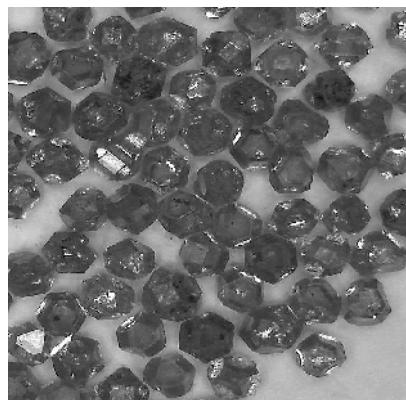
[4–7],

160 – 400 [8].

[9, 10].

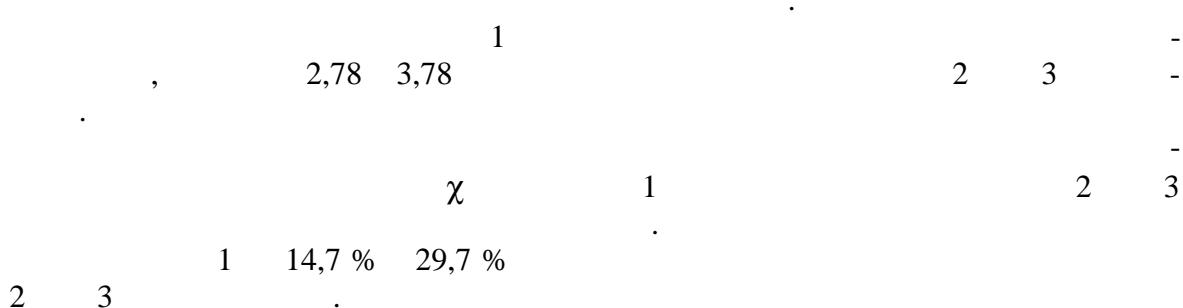
[11].

160
,
(%) [12].
. 1.



. 1.
:) 1;) 2;) 3 () ,

400 ° 1100 ° ,
[13] , [14].
. 1,
,



1.

500/400

	1	2	3
() , %	0,09	0,25	0,34
,	655	571	505
, %	75,0	63,0	52,0
, (. .)	0,90	0,80	0,65
$\chi 1^{-8}, ^3/$	5,4	15,4	35,8
, . %	0,559	0,663	0,892

75,6

Wire Line (.2).

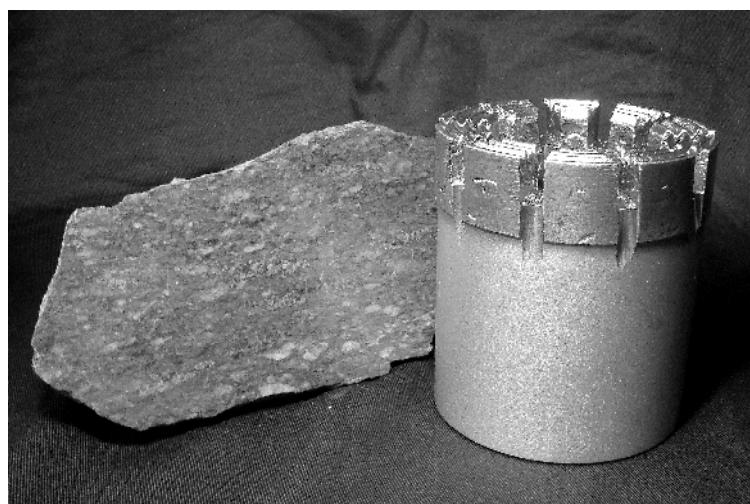
-60 NQ

X-XI

LF-90 =

- 1000-1200 ;

- 70 ^3/ .



. 2.

-60 NQ

WL

75,6

-60 NQ

1,33

1,84

2.

-60 NQ

/	-	160 500/400			-	
	,	, %	,	..	,	,
1	3	505	52	0,65	54	64,5
2	3				60	
3	3				68	
4	3				76	
5	2	571	63	0,80	80	86,0
6	2				84	
7	2				85	
8	2				95	
9	1	655	75	0,90	107	
10	1				108	118,5
11	1				120	
12	1				139	

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PROSPECTS OF THE USE OF HIGH STRENGTH SYNTHETIC DIAMONDS IN DRILLING TOOLS FOR PROGRESSIVE TECHNOLOGY OF WELL-DRILLING

The results of the use of the special methods of sorting, allowing to promote such indexes of quality of synthetic diamonds as static durability and thermostability are resulted. Application of high-quality synthetic diamonds in impregnirovannykh borings crowns in progressive technologies of the boring drilling allows substantially to promote their capacity.

Key words: Synthetic diamonds, sorting method, static durability, thermostability, drill bits.