

621.921.34; 622.24.051

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«Longyear» () 1950–1952 . -

(), «Atlas » (), «Boart Longyear», «JKS Boles» (), «Djoy» (), «Tone Boring» (), «Diamond Boart» (), «Smith» ().

(Wire Line -
1,5 - 2

$$- \quad (\quad) \quad (\quad 1000 \quad ^{-1}) [1].$$

10–30 % [2].

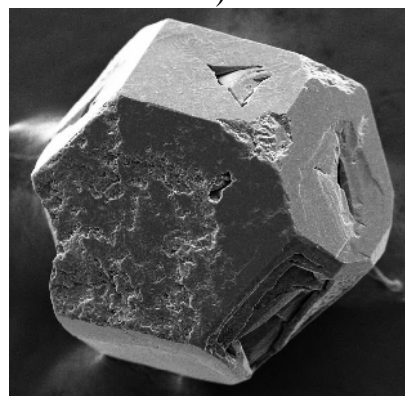
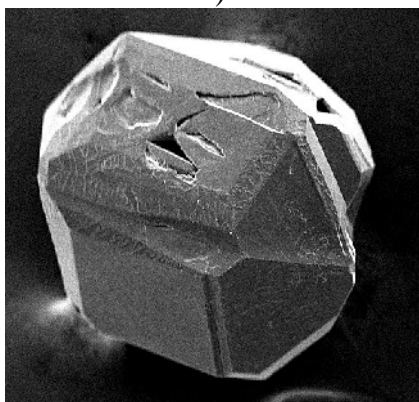
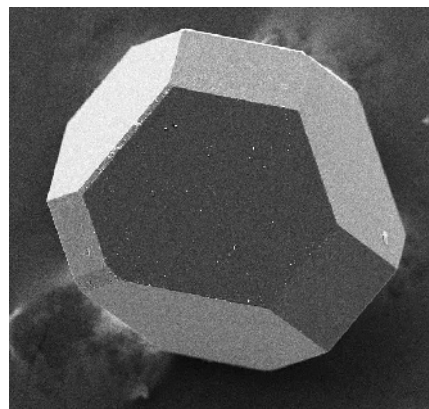
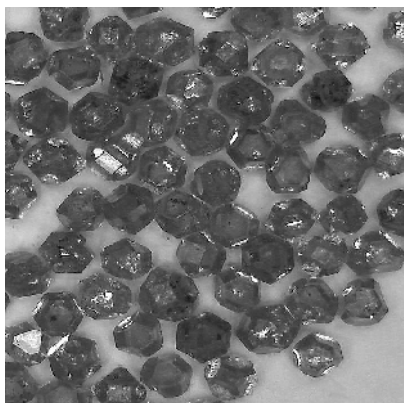
30 . [3]

(%) [12].

160

500/400

. 1.



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2;)

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[13]

400 °

1100 °

[14].

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1

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2,78 3,78

2

3

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χ

1

2

3

1

14,7 %

29,7 %

2

3

.

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 =

246-714 ⁻¹;

- 1000-1200 ;

- 70 ^{3/} .

. 2.

-60 NQ

WL

75,6

-60 NQ

1,84

1,33

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	118,5
10	1				108	
11	1				120	
12	1				139	

1. . // . - . ; - - . : « », 2000. - 712 .
2. . . () . - : , 2010. - 248 .
3. , / . . , — . : , 1990. — 268 . : . ISBN 5—247—00527—9
4. . , . - . 1. - // . - 2006. - 5. - . 74—83. - . 2. - // . - 2006. - 6. - . 58—67.
5. . 28.5- 272:2008. . - : , -2008. - 15 .

6. 28.5–271:2008. (). – . –2008. – 18 .
 7. . . , –
 8. // . – . –2006. – 3 (31). – . 4–6. –
 9. UA65128 . B03C 7/00, B03C 1/00. –
 10. 25515 , B03C 7/00, B03C 1/00. –
 11. 69947 , 03 7/00, 03 1/00. –
 12. 65129 . G01N27/12. C oci –
 13. 28.4-05417344-2003. 200, 250, 350, 400. . 01.09.03. – .
 14. 88 90.256-2004. (). – . ,
2004. – 9 .

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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.