

621.78: 621.785.52.015.

• “ • ” • ” • ”
(. . , .)
: (8552)39-66-29; E-mail: asttv@mail.ru

1.

— 10

2.

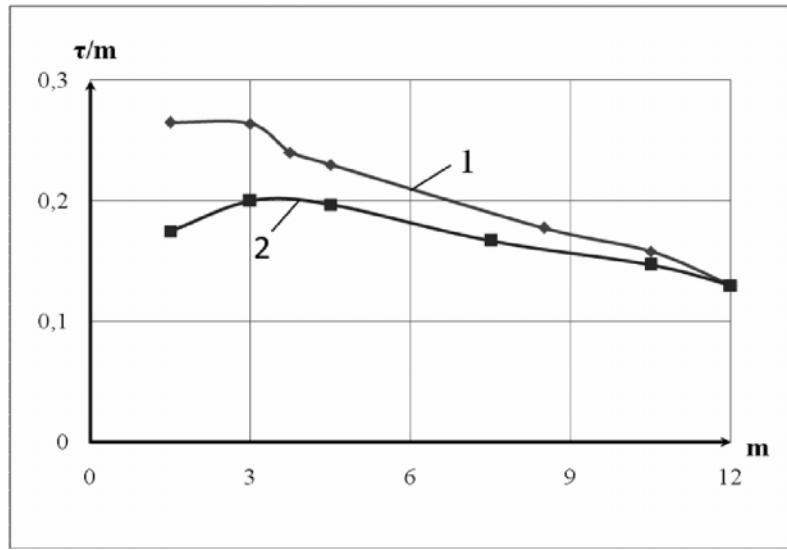
(, , ,) (), (, ,).

(, . .)
 (, . .).

),
 $\left(\frac{\tau}{m}\right)$ (m 5
 $- 0,18 \div 0,22$ [1].
 $,$
 $),$
 $,$
 $:$
 50HRC,
 $\sim 0,4\%$ [2],
 550 HV [3-4], 610 HV [5] 750 HV [6].

5 [7]. 0,18÷0,20,

(—, 1).



.1.

$$\left(\frac{\tau}{m} \right)$$

550 HV (1) 610HV(2)

(60%),

[8,9]

()

[10].

(0,01)

(.2).

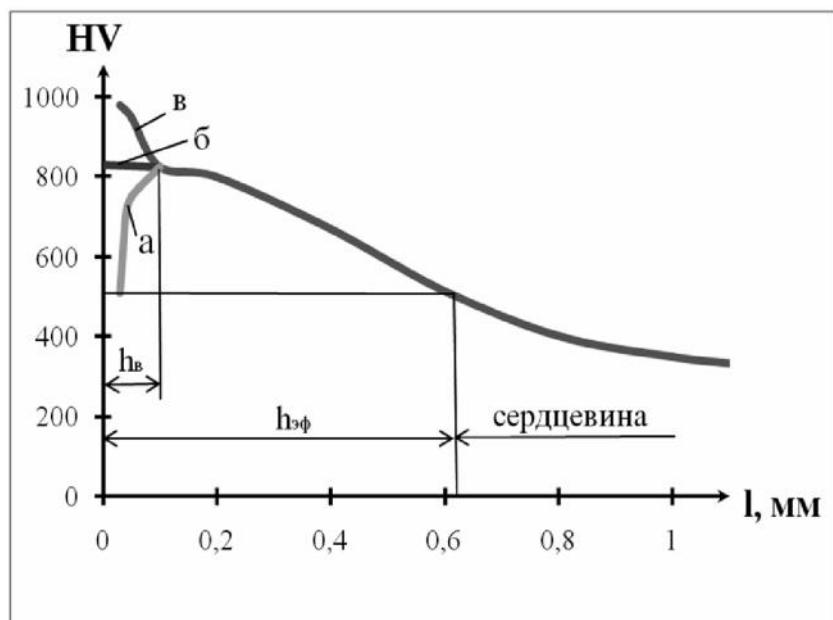
(,).

) (,) . .

(.2), -

• , 1÷3 ~25%. ~ 5

$$40\% \quad , \quad (1 \quad 12 \quad) \quad (5 \div 12 \quad) [11].$$



60%)

36 44 HRC (~ .1).

1.

(20 ; - 8,7)

/	<u>HRC</u> 9	, HRC		*	,
1	43,5	61,5	44,0	1,20	2,55
2	39,0	61,5 – 62,0	36,0	1,15	4,10

; *

,

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,

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,

,

, ZF – 7B ()
2,5 3,05%

, ,

,

(.3).

, ,

,

,

, ,

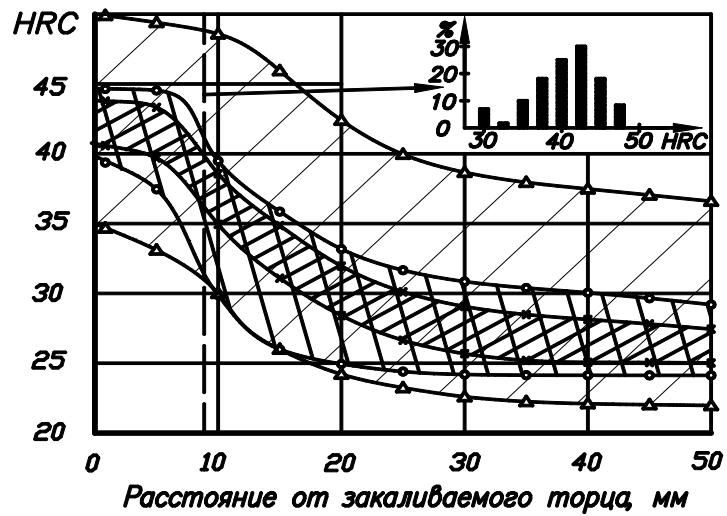
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, ,

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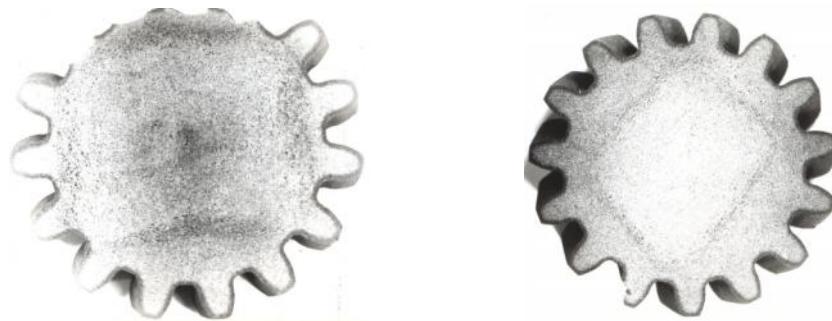
(.4).

,



. 3 . 3 ZF - 7B (x)

(-)



. 4 () ()

3.

1.

2.

$$\left(\frac{\tau}{m}\right),$$

0,18-0,20

HV610.

(m<5)

3

4.

5.

14 05 2010

MATERIALOVEDCHESKY CRITERIA OF THE ESTIMATION OF RELIABILITY OF METAL OF DETAILS OF CARS

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The assortment of controllable indicators of properties of metal of products after hardening by a cementation method is considered. The basic attention is given quality of applied steels, structural parametres of the strengthened layer and himiko-structural heterogeneity inherited from metallurgical manufacture. Actions for technological maintenance of quality of tooth gears are resulted.

Key words: the strengthened layer, structure, hardness, cal defects, cementation.

steels, metallurgi-