

621.78: 621.785.52.015.

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: (8552)39-66-29; E-mail: *asttv@mail.ru*

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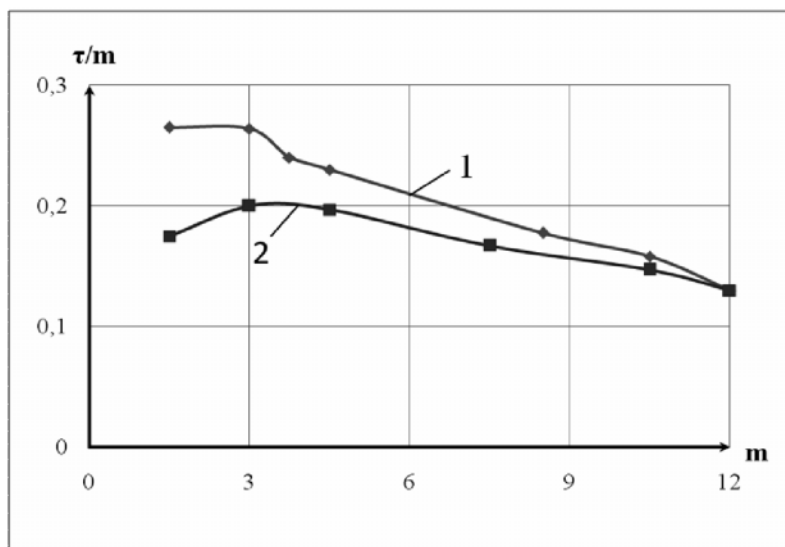
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, (m). (m 5
) $\left(\frac{\tau}{m}\right)$ 0,24÷0,27,
- 0,18÷0,22 [1].
), (-
, -
: -
50HRC, ~0,4% [2], -
550 HV [3-4], 610 HV [5] 750 HV [6]. -
, . -
610 HV, -
, -
5 0,18÷0,20, -
[7]. -
(.1). -
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- -
, -
, -
, -
30%: -
15%, -



.1.

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

550 HV (1) 610HV(2)

(60%),

[8,9]

()

[10].

(0,01)

(.2).

40%

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

; *

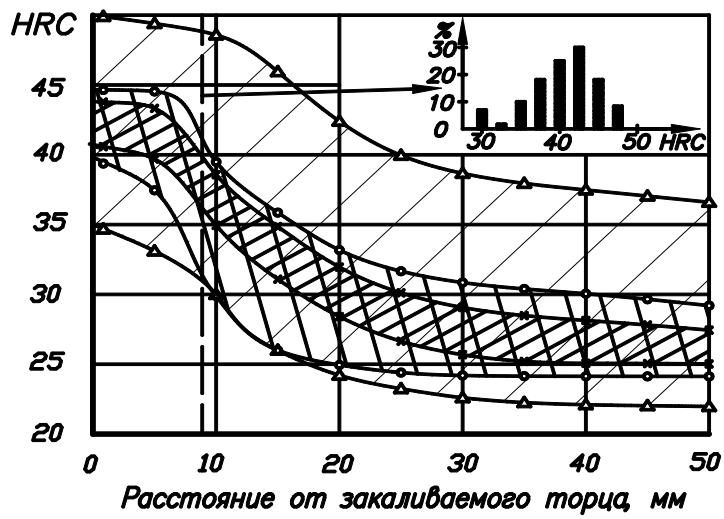
—

ZF – 7B ()

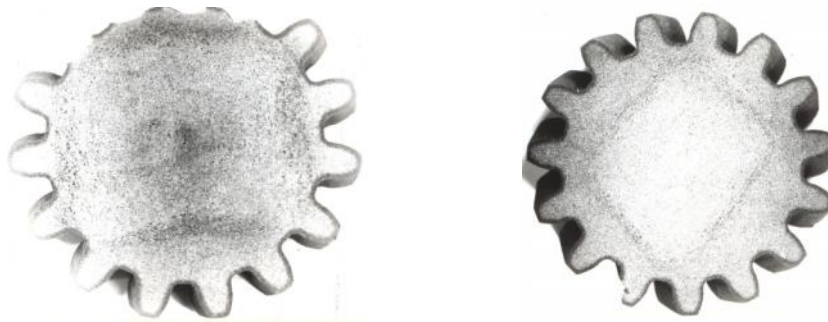
2,5 3,05%

(.3).

(.4).



3. (-) 20 () ZF – 7B (x)



4. () () -

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1. -
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 $\left(\frac{\tau}{m}\right)$,
($m < 5$)
0,18-0,20 HV610.

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14.05.2010 .

MATERIALOVÉDCHESKY 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, steels, metallurgical defects, cementation.