

621.785:621.833  
621.745

10

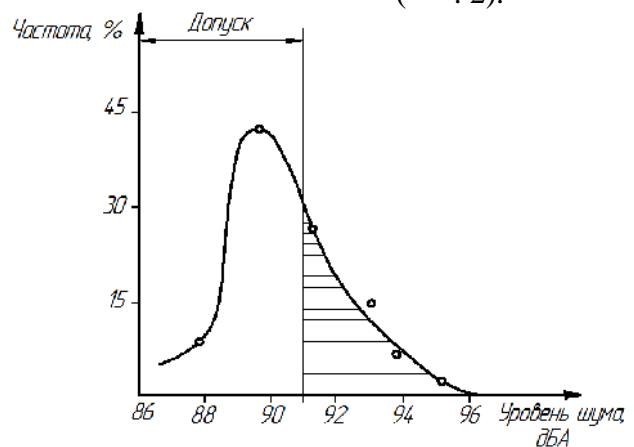


[1]

~30%

40%

( . 2).



1. (%)



2.

: 1 -

; 2 -

;

3 -

; 4 -

;

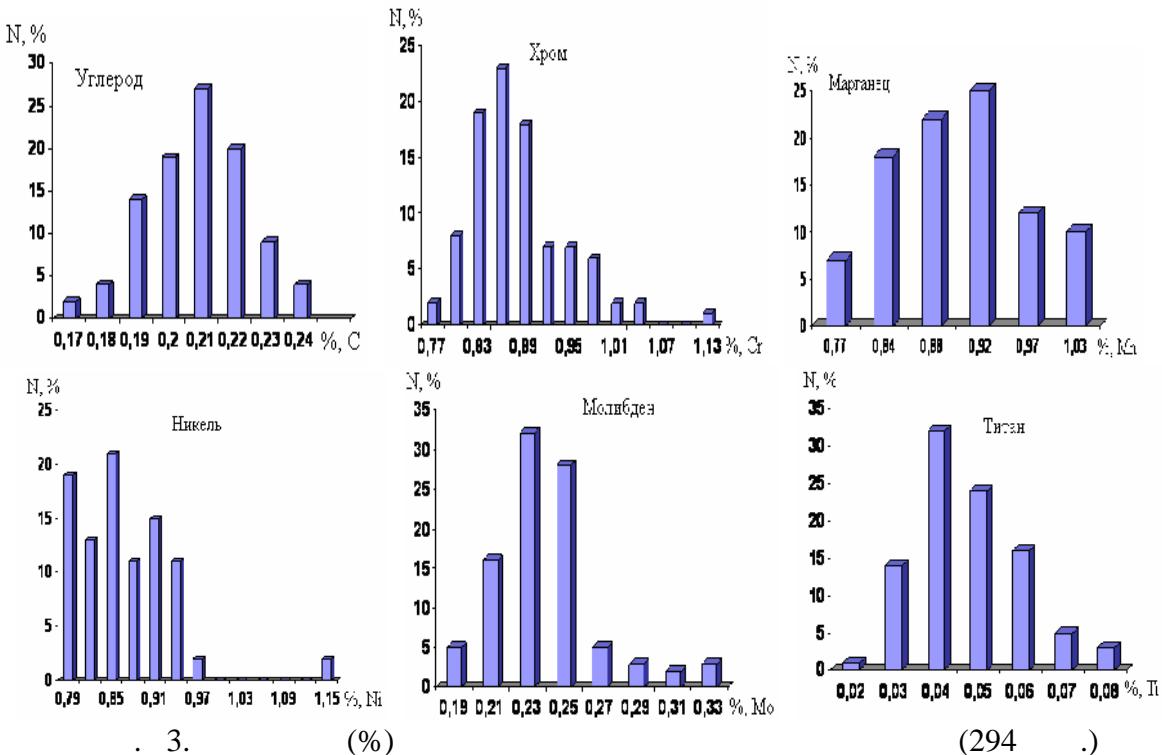
; 6 -

;

; 7 -

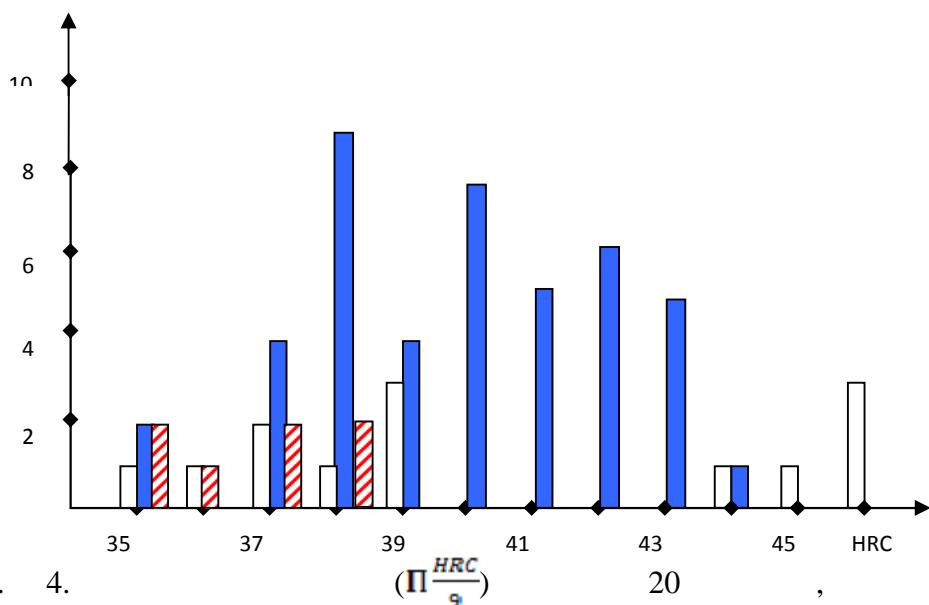
(

[2-6].

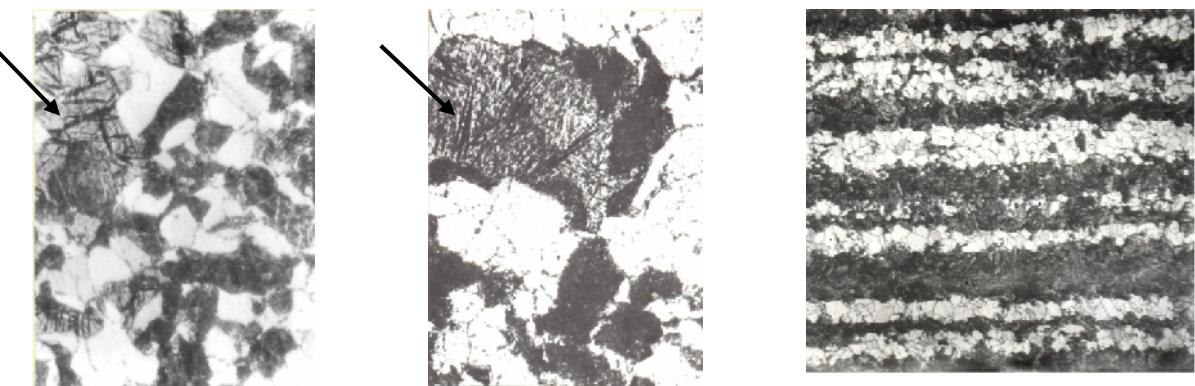


( . . 5 , ) - (HV>350) - ( . . 5 ).

( . . ). - , 80%  
, 45%



4. ( . . ) ( ) . ( . . ) ( ), . ( . . ) ( ) .



.5. : ( , ) ( )

930 - 950° , 23° / .  
 680 ± 20° , 680 - 660 - 640 - 600°

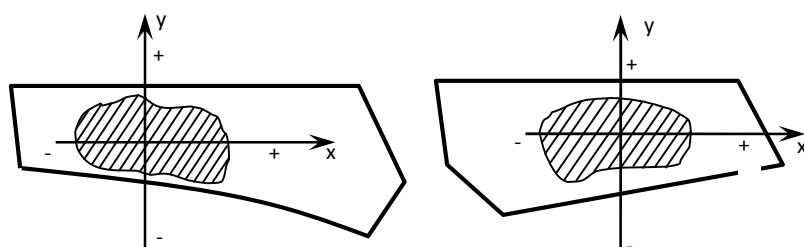
156 - 207 HB

[2, 4, 5].

840° . 1 , ,  
 1,2 - 1,3 ; - 60 - 61 HRC  
 - 36 - 38 HRC.

1.

/			° ,	
1	, ,	0,02-0,05	930	0,05-0,13
		0,02-0,07	840	0,05-0,09
2	, ,	0,01	930	0,08-0,14
		0,01	840	0,02-0,06
3	, ,	0,02	930	0,02-0,07
		0,02	840	0,01-0,03
4	, ,	0,02-0,10	930	0,03-0,16
		0,03-0,05	840	0,04-0,07



. 6. ( )  
 ( ) ,

319,6 , . 46,3%.

( . 6, . 2). 467,5

2.

( . . )

, °	. ., %			. ..	
				« »	« »
930	<u>49,41</u> 55,72	<u>44,55</u> 50,73	<u>58,86</u> 66,99	<u>-8,2</u> -9,0	<u>+2,5</u> +4,6
840	<u>49,26</u> 55,12	<u>62,05</u> 67,71	<u>86,10</u> 81,69	<u>-4,2</u> -7,0	<u>+1,3</u> +3,2

3

	« - 512»,	,	,
	0,05	0,24-0,31	87,4
	0,06	0,23-0,30	87,1
	0,05	0,21-0,27	87,3
	0,07	0,23-0,32	87,8
	0,10	0,22-0,33	89,2
	0,13	0,29-0,42	90,8
	0,12	0,28-0,40	90,4

1.

20

« » « »

2.

3.

2-3



15.05.2012 .

*Individual share of various stages of metalrepartition in accumulation of deformation of tsementovanny tooth gears is shown. Fluctuations on chemical structure, structure and a prokalivayemost of steel 20 of a various mode of the production, used for manufacturing of gear details are revealed. Decisions on heat treatment of pokovka and chemical and thermal processing of the gear wheels, allowing to minimize deformation of details are offered, to increase the area of a spot of contact piece between teeths in gearing and to stabilize its sites and to reduce noise level on 2-3 DBA at operation of the leading bridge of the lorry.*

**Keywords:** steel, metalrepartition, heterogeneity, prokalivayemost, cementation, cogwheel, contact spot, noise level.

2-3