

620.22: 669.017

« ..: +38 (0312) 643092; E-mail: yuzhiguts@gmail.com »,

[1,2].

440 ~2000 , - 700...1200 ,
 4...30 ,
 700...800 .
 , 800 .
 0,75...0,8 (0,55...0,61).
 1,5...3,0%.
 0,15%
 11000...14100 ,

1.

1

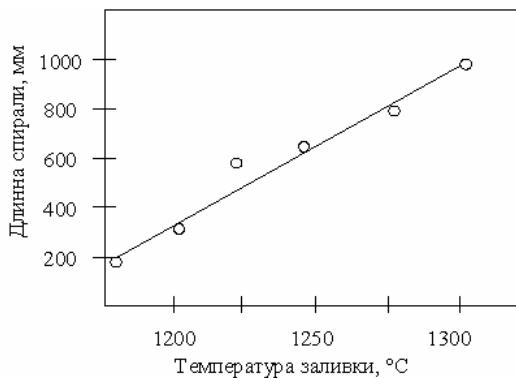
/	, -	0,2	, %		, -	1
				%		
1	45-0	470	380	-	-	210...250
2	45-5	460	360	5	20	190...210
3	50-1,5	510	370	1,5	15	220...240
4	60-2	600	430	2	15	210...240

(- 160...210 , - 190...260 , -
 - 280...340), .
 , , ,
 , , ,
 , , ,
 , , ,
 , , ,
 2,8% 3,1...3,6% 3,9%
 - 30 , ~10 .
 , , ,
 , , , 2,1 3,9%
 2,1...3,6% 2,1%
 , , ,

Si

, 0,4...1,3%.
 0,12...0,15%, - 0,03%.
 -

0,03...0,08%,
 (0,003%),
 Al
 0,4%
 Al
 0,2...0,3%.



. 1.

0,7...1,2%.

,
 ,
 ,
 (%):
 - 3,5...6,3;
 - 2,0...3,0;
 - 3,0...6,0;
 . 2.

~ 550
 $2,5...4$
 [6].

2.

1

/		10 ^I , %			
		, %	,	,	10 ^I , %
1		0	170	210	0
2	²	30-70	-	-	-
3		85-95	190	550	4,5

1

10

2

2
50...60%.
200...350 / . . . 20...25% , . 3.

70%

).

3.

	1, / .	
	6 5	8*
	45...70	90...180
-	35...45	60...100
	35...45	60...90

1

19045-80.

4.
380...410

4.

,

	-	1 -
	410	23,5
	560	12,7
	320	33,2

Yu.Yu. Zhiguts

THE TECHNOLOGY OF SYNTHESIS HIGHSTRONG THERMITE CAST-IRON

One of such perspective ways is the usage, offered in this papers, of the method production of steels with the usage of high-exothermic reactions. The components of reactions take a place in metallothermic reactor. As a result of leadthrough of the experimental thermite melting were got the shaped founding's. For them seated chemical composition, mechanical and technological properties. The conducted work allowed determining the composition of charge for the synthesis of highstrong thermite cast-iron, to develop the method of preparation of metallothermic mixture and synthesis of alloy.