

### *Abstract:*

785 **P**a a r g, a a a  
b a a a a a a a a  
la a a a a a a a a  
a a a a b a a a a  
a r a a a a a a a a  
b a a a a a a a a a  
m a a a a a a a a a  
a a a a a a a a a  
b a a a a a a a a  
a a a a a a a a a  
b a a a a a a a a  
a a a a a a a a a

1. I ~~a~~d c

Table 1 The chemical composition of steel examined

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.	.	.	.	.	.	,

## 2. O e f Tec

## 2.1 S d f O C e ca C

### 2.1.1 A -ed e e -ed e

Table 1.

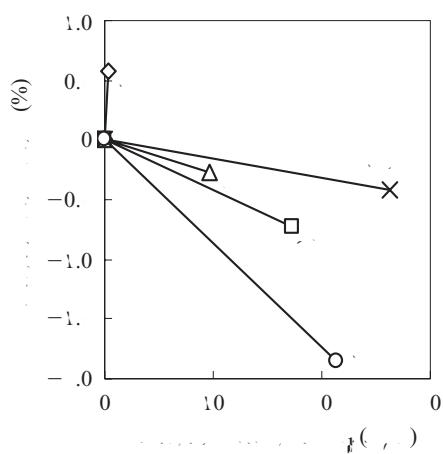


Fig. 1 Tensile property change with the addition of 0.1 mass% alloy elements

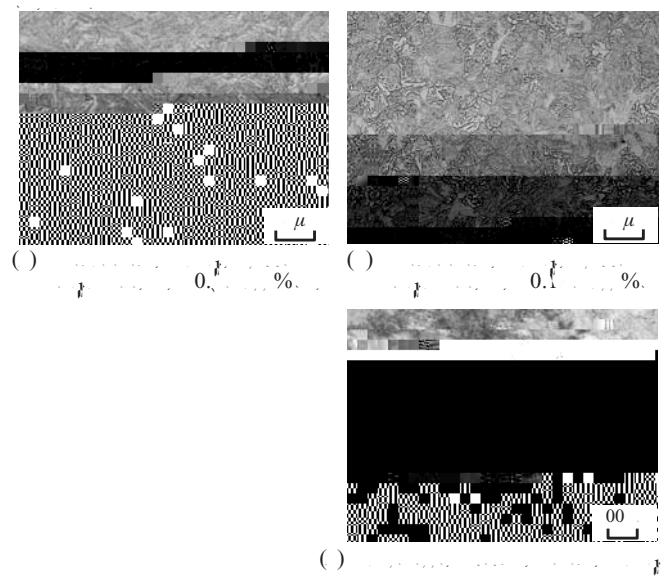


Fig. 1. SEM photographs of the surface morphology of the material.

### 2.1.2 Test of electrical conductivity

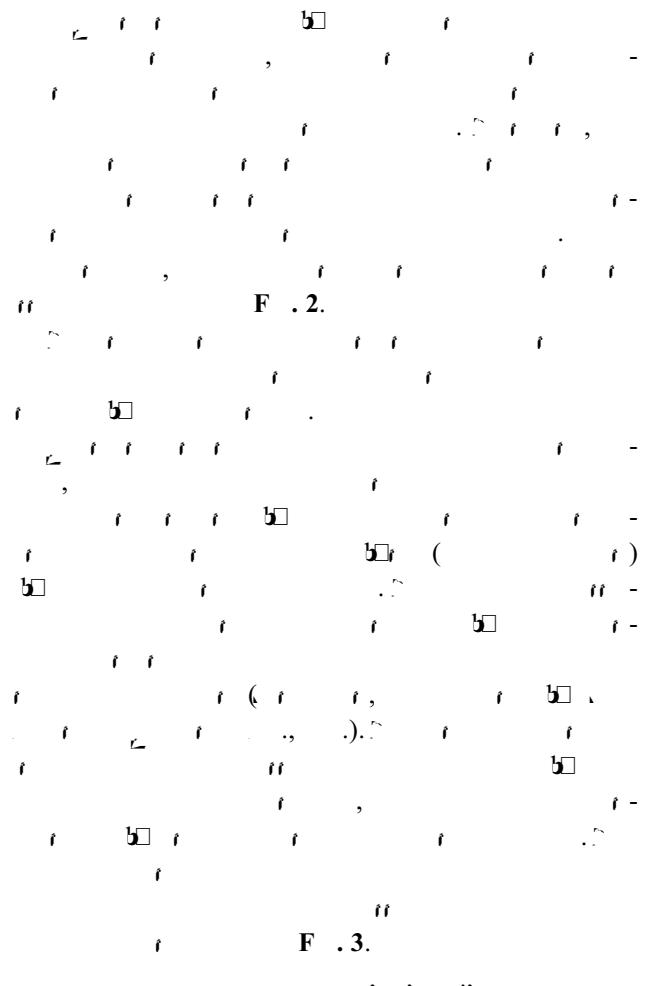
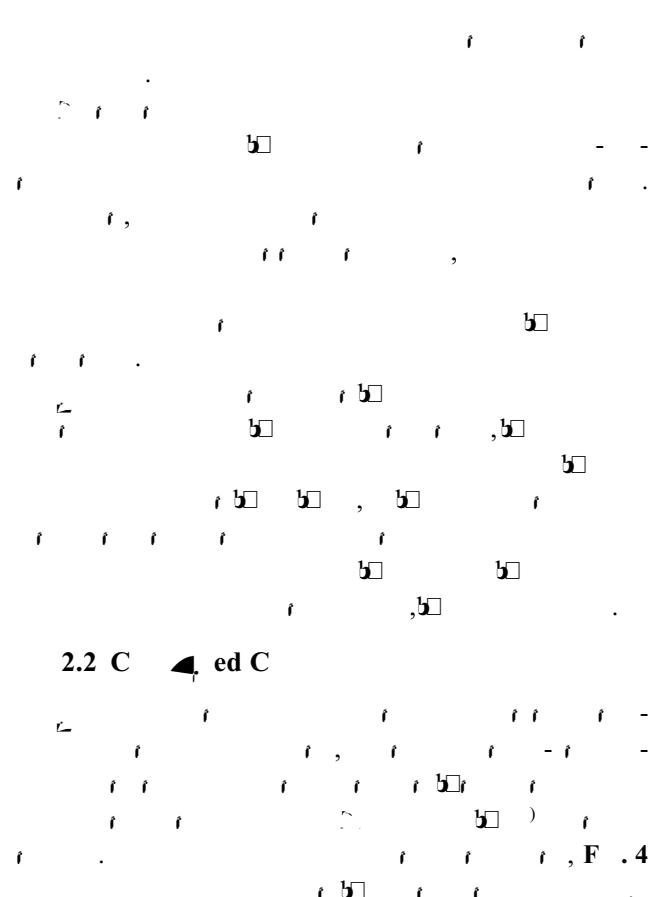


Fig. 2. Current-voltage characteristics of the material.



2.2 Caled C

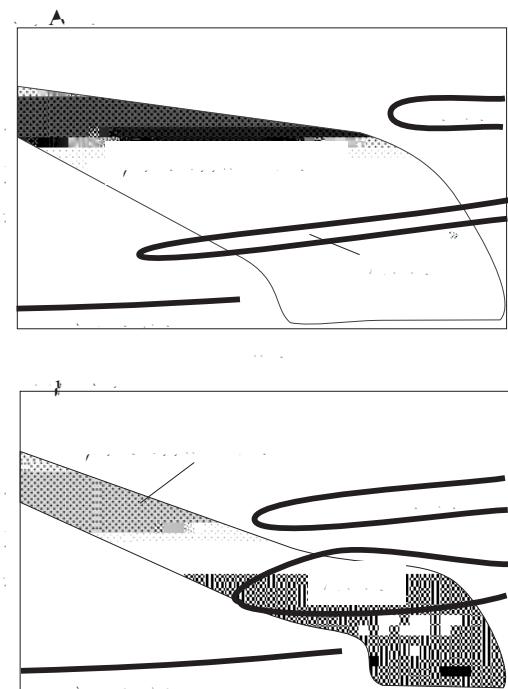


Fig.5 Continuous cooling transformation diagrams of steels with or without Mo adding

2.3 Decrease of 4-Rb Steel  
Effect of blast air velocity  
on cooling rate  
Comparison of cooling rates  
between 4-Rb and 4-  
Steel

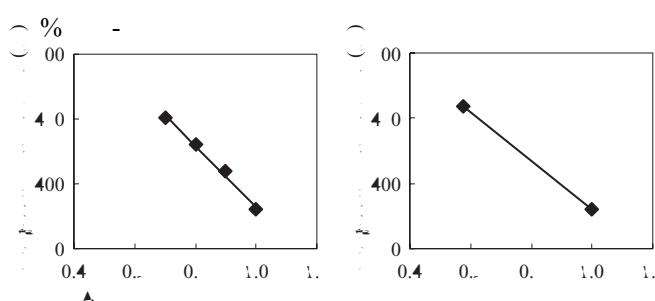


Fig.4 Effect of cooling time and velocity of blast air on the finish cooling temperature



## 4. C e

t t t t

## 3.2 E a e fA ca

P 3

t t t  
t 5□ t 5□ t 5□  
5□ .  
t t t t t t  
t 5□ t 5□ , 5□ .  
t t t t t t  
t t , t 5□ , t 5□ ,  
t 5□ t t t t , t 5□ t ,  
t t t t t t ( t 5□ ),  
t 5□ t 5□ t t ) t  
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- t 5□ t t t 5□  
5□ .