



????????????????????????????????

??????????%?

	c	mn	si	s	p	cr	ni	mo	cu
???	?0.15	0.50~2 .50	?0.90	?0.030	?0.040	28.0~3 2.0	8.0~ 10.5	?0.75	?0.75

?????????

????	rm (n/mm2)	a (%)

???	?660	?22
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????

?????ac?dc+?

?????mm?	f2.5	f3.2	f4.0	f5.0

?????a?	50~80	80~110	110~160	160~220
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?????

1. ??????300~350?????1h?

2. ??????????????????