

???????????????? 50????????HRC42~46????????????????????50????????????????50????????????????????
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?? ???13*30mm?????????
??

????
(??????%)C 0.47~0.55?Si 0.17~0.37?Mn 0.50~0.80?P?0.035?S?0.035?Ni?0.30?Cr?0.15?Cu?0.25?

???? ???? ?b (MPa):?630(64)

???? ?s (MPa):?375(38)

??? ?5 (%):?14

????? ? (%):?40

??? Akv (J):?31(4)

?????? 1??

2????????????????????????????

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

sk7?65mn?60si2mn?50cr4V?ck67?sk85????????????????

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????? ?????????????? 1.???? 2.???? 3.??????? ?????? ?????????????????????? ??????
??? ????????? ?????????????????????????? ??????