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发展现状 编辑

市场概况

??527???1999??

????????????????????????????????????50%????????????????

(1)?????????

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

????????1998-2002????????????97????????220????????????98??37????02??156????????

??????"????????ULSAB????"????????????????????34KM/3L????????25%????????
????????????????????????????????ULSAB????????????????????????????[4]????????????????
??90%????????????1985~1995????????????????????10%??30%????????????????????6??
??9?3????????????????????????????????357*104L????4????????????????????????2000????
????????????????36.3%? ?????????????????????????????6? IF???????? ?????????????????
????????????????????????70?????IF??IF????
????????????????????????????????08AL????????????????DDQ????????????IF????????IF??
????????Mo?Cu?P?????????

IF??

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??RH????
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???????????????? 7? ????????????? ?????????????????Si?Mn?P????????????????????D
P??ó?240Mpa????????IF??P?

Mn?Si????????????????????C?N????????????????????C????????????????????B????P????
??ó?b??340~370Mpa??Mn?P????????ó?b??390~440Mpa[5]? 8? ?????BH????????
BH????????IF????????BH??C??0.016~0.020%????????????????C????????5ppm

????C????????????????????????????170??20min????Fe-C????????????????
??BH????????????????Nb?Ti????????????????????R??1.92~2.06??BH????
????170`C??????????40~70MPA????????340Mpa?BH????[6]? 9????????????

????????????????????440~1470Mpa????????????????????DP????????
????????????????????TRIP????????????????????????????????
DP????????????????????[7]????????????????????[8]?

??2?1?3????????
??90????????????????????????????HCD????????????
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????????????????????????????????????
????????????????????????????????????

????????5~10??
????????120s? ???2100m
m????????????????200m/min????????136m/min????????60??? 2?1?4???????????? ??????
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????????????????? ???
?????????????????Al sensor??
????????????????????NHD??[9]???

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??"??"???"?????"
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??1800mm????
??81%????76%????71%
0%

???60
%???45%??2005??????????????????????

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1????????????????????????20?70????????????????????????????90????????????????????
2?????????????????1? ???
????????????????????IF??

??2? ?????????????????????
??
?????????????????????3? ???
??
??????????3? ???20?60?70????????
?????????????????"?"??
???????Zn-5%Al-Re????? ??????55%Al-Zn-Si????? ??????Zn????? ??????Al-Si?????

