





Di=Dicx2.21Mnx1.40Six2.13Crx3.275Mox1.47Ni (1)

(1)????????????????????????????????????Cr?Mn?Mo?Si?Ni????????????????????????????

Cr????????????????Mn????????5%????????????????C????0.5%????????Si?W?Mo?V?Ti????????????????

C?????????:????????????????????????????????C????????????????????????????????????

????C????????????????????????????????C????????????????C????????d????S????????????????[17]??

????????????????????????????????????????????????????rc/rm????C????????????????????C????????????????

??A????????????????????????????????????????????????????VC????????????900~950????????????1100?

????????(????????1413?) [17];??500~700????????????????????????????????????????????W

?Mo???M2C?MC ?????????????????????????????????????????????????????????????500~650????????

????M23C6(?Cr23C6?)????????????????????????????????????????(1090???A?)????????????

????????????(?(CrFeMoW)23C6,????????????????M7C3(?Cr7C3? Fe4Cr3C3?Fe2Cr5

C3)????????Fe3C????????????????????????????????????????????????[17]?

?Fe-Cr-C????????H13????????????Fe-Cr-C?700?[18~20]?870?[9]????????,??0.4%

C??,?Cr????(FeCr)3C(M3C)?(CrFe)7C3(M7C3)????????870???,???Cr????11%????

M23C6)????Fe-Cr-C????5%Cr????,??0.40%C????????(???1%Cr)?(CrFe)7C3??

C????????791????????A???(?+A+M7C3)???,?795????(A+M7C3)???,??970??,(CrFe)7

C3??,????A????C?<0.33%?,?793????(M7C3+M23C6?A)????,?796???(A+M7C3)?(

0.30%C?)????????????????M7C3???A????????Nilson????1.5%C-13%Cr????????(Cr

Fe)23C6???[20]???,??Fe-Cr-C????????????,????????????