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Recent Activities in Research of Casting

(Tomoya Koseki)

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- (1) Nb-V
  - (2)
  - (3) Cr, Mo
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Synopsis :

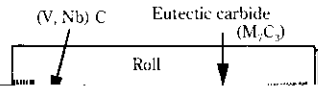
Kawasaki Steel succeeded in producing various types of high speed steel (HSS) rolls by centrifugal casting process. The manufacturing concepts of the developed rolls and its characteristics have been summarized, as follows : (1) The addition of Nb makes the compound carbides of (V, Nb) C, which have similar specific gravity to the residual molten steel, and enables to produce a high wear resistance roll with uniform distribution of (V, Nb) C. (2) The increase in the volume of carbides is effective in suppressing the increase in rolling load. (3) The increment of tough carbides enriched

鑄造ロール研究 10 年の歩み\*

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