KAWASAKI STEEL TECHNICAL REPORT

No.40 (May 1999) Steinless Steel and Steel Platel

Stainless Steel Production Technologies at Kawasaki Steel Features of Production Facilities and Material Developments

Tatsuo Kawasaki

Synopsis:

Kawasaki Steel has careers of more than 40 years in stainless steel flat rolled products. History of the company in terms of production facilities and developments of stainless steel is described. Features of the latest facilities are also described. Significant points are steelmaking process of Cr-ore smelting reduction with combined blowing converter,

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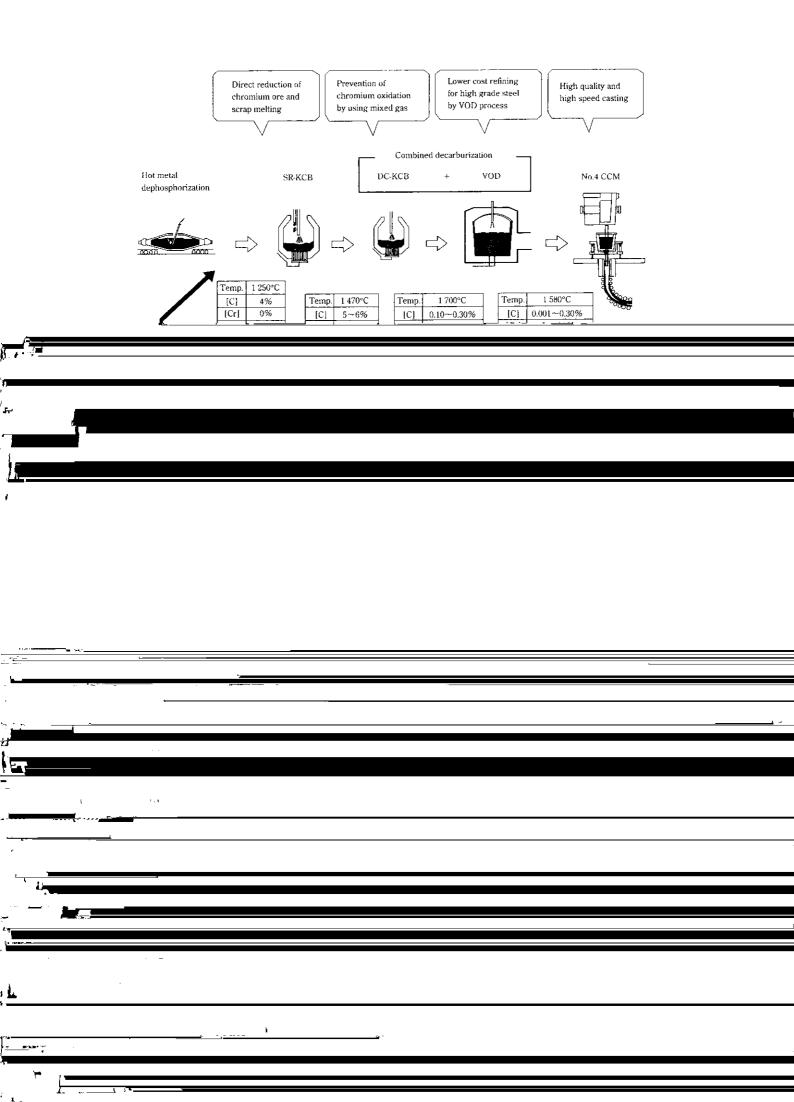
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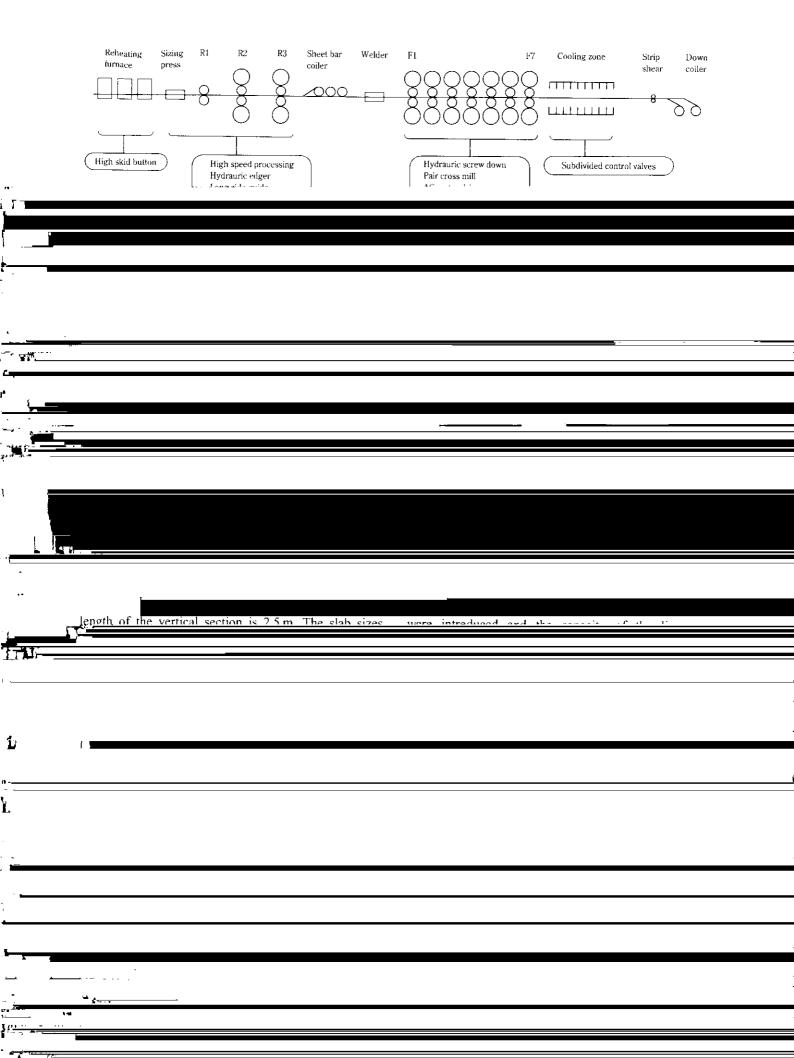
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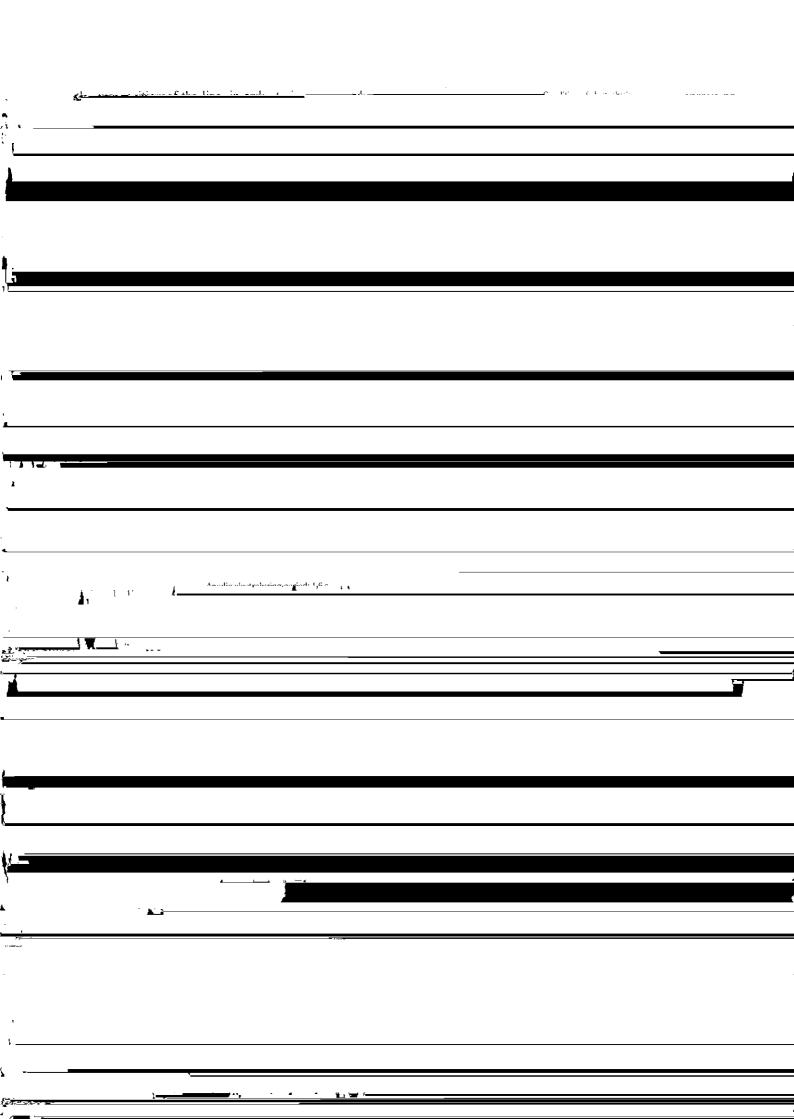


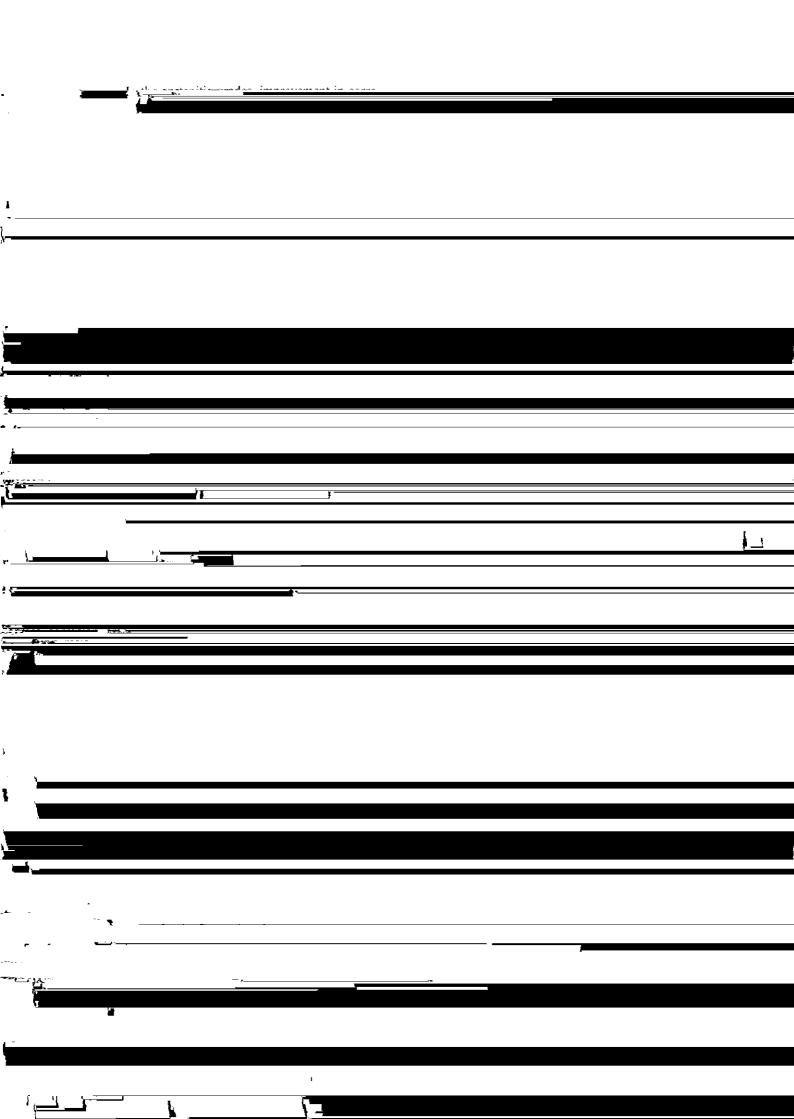
Table 1 Stainless steel history of Kawasaki Steel

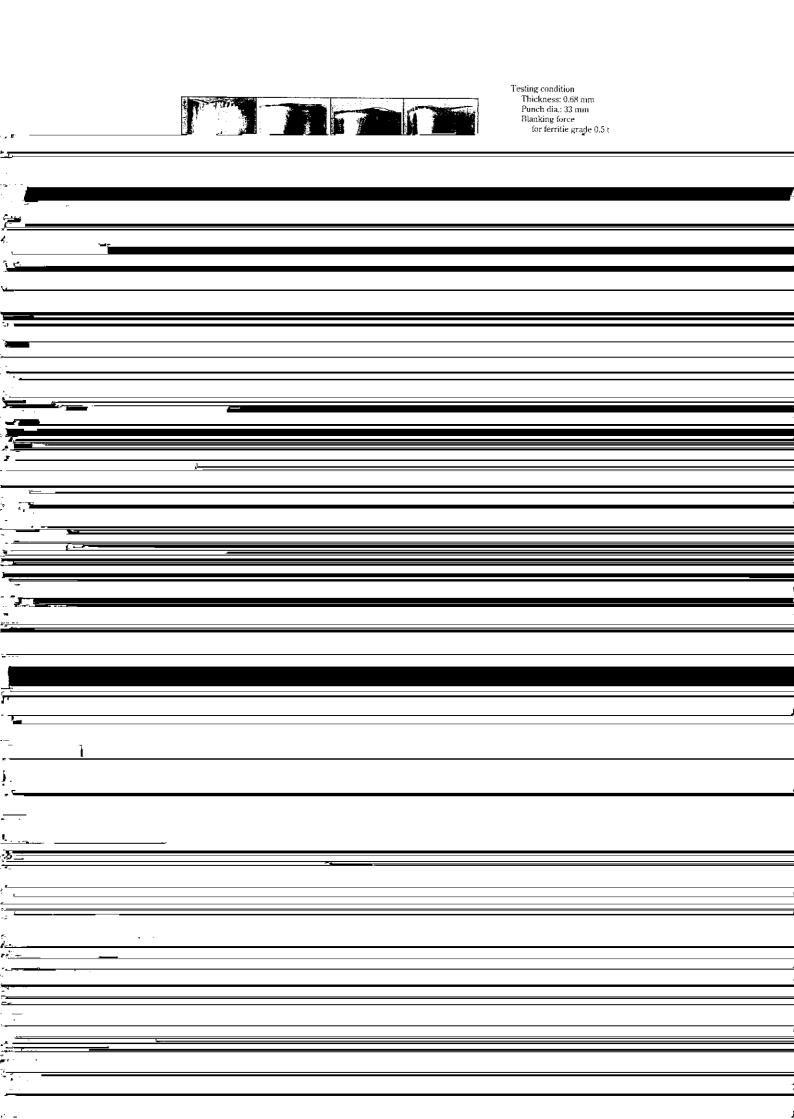
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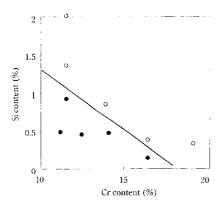


Fig. 9 Relation between Cr and Si content on the

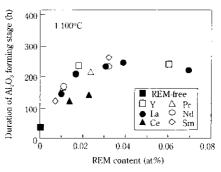


Fig. 10 Effect of rare-earth metals on duration of Al₂O₃ forming stage under oxidation of 50 μm thick Fe-20Cr-5Al allo<u>y foils at 1 100°C</u>

