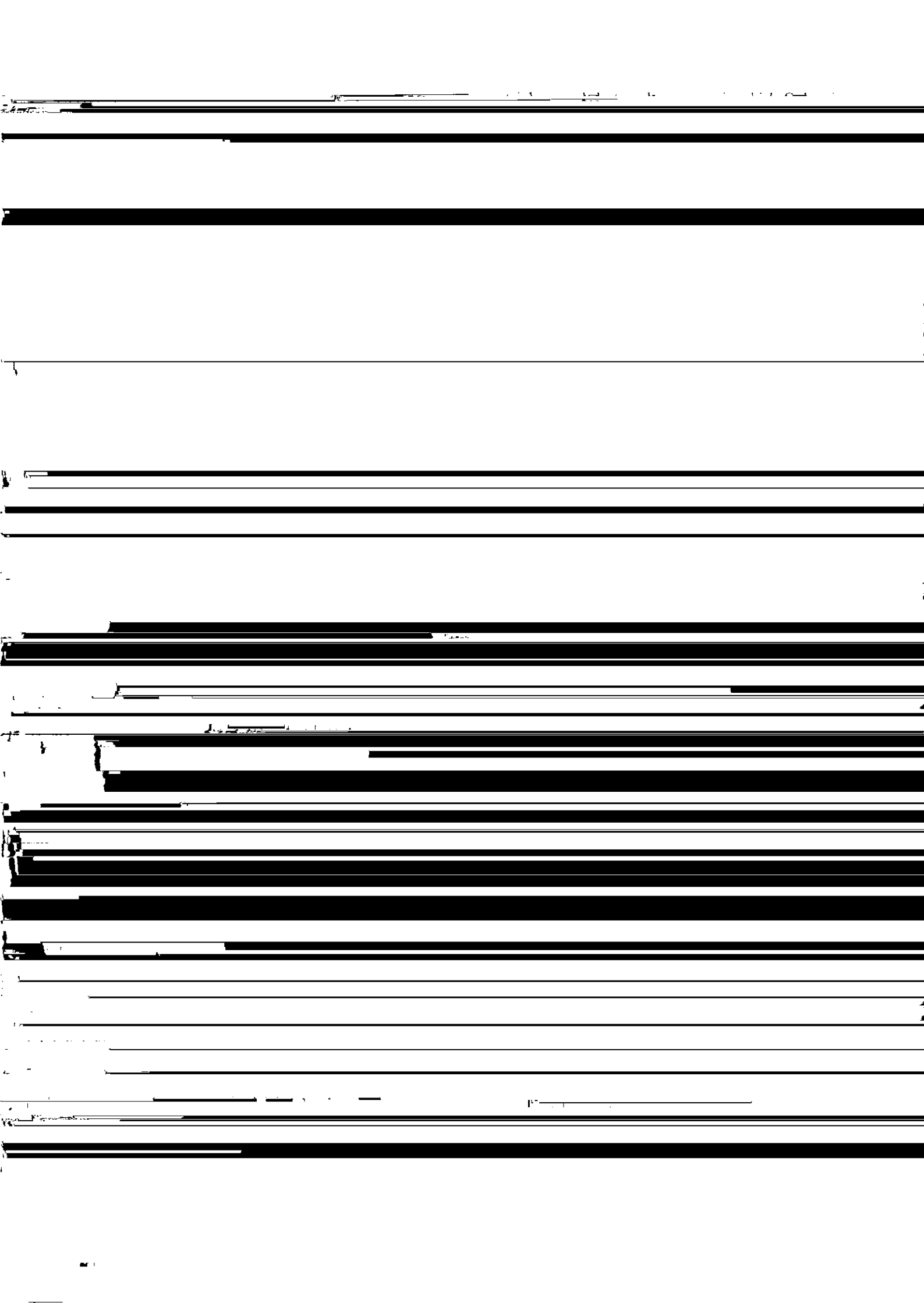


**Development of High Efficiency Stainless Steelmaking**

**by Cr Ore Smelting Reduction Method\***

*Synopsis:*



ther processing, while water-bearing dust is blown as a

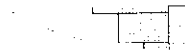
ing experience at No. 1 steelmaking shop, to increase

Conventional (pre-reduced Cr ore)  
Method B

Conventional (pre-reduced Cr ore)  
Method A



Top lance



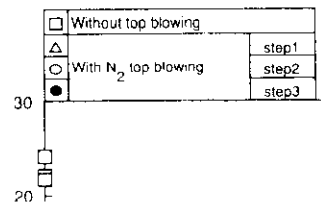
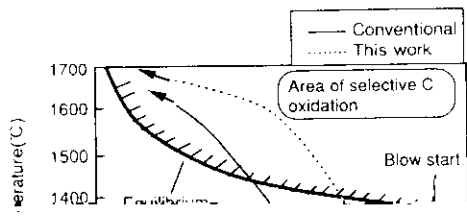
during addition should be minimized. Accordingly, the most appropriate method is direct addition of the Cr ore

	SR-0. I (Scrap melting and heating)	SR-II (Smelting reduction)	SR-III (Final reduction)
		Cr ore	

Table 3 Blowing conditions and raw material balance in SR-KCB

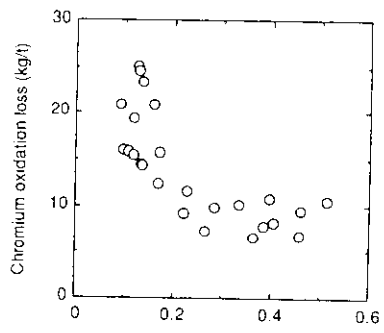
Items

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0 200 400 600 800





raised. Accordingly, the blow end [C] at the converter is set at 0.1–0.2, and the total treatment time with the DC-KCB and VOD is minimized to match the high-speed casting time. By adopting this duplex decarburization process, it is possible to equalize the treatment time in the decarburization furnace and VOD and minimize Cr loss.

## 6 Conclusion