

**KAWASAKI STEEL TECHNICAL REPORT**

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*Steel Structure, and Continuous Casting of Steel*

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# Separation of Inclusions from Molten Steel in a Tundish

## Synopsis:

*A new process was devised for promoting inclusion*

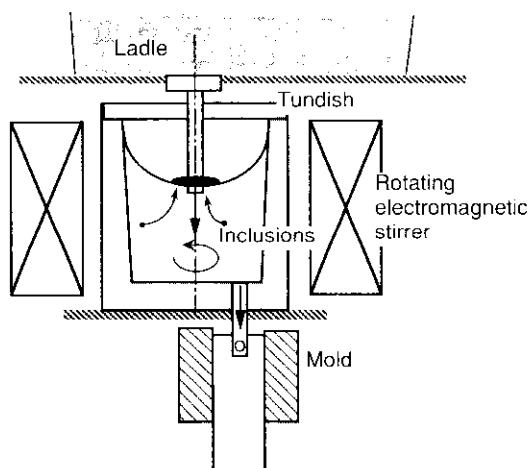


Fig. 1 Concept of centrifugal flow tundish

Table 1 Experimental conditions (No. 1 CC, Chiba Works)

Capacity of tundish	(t)	10
Ladle capacity	(t)	100
Feeding rate	(t/min)	1.5
Rotational speed	(rpm)	40~50

Table 2 Composition of molten steel

Steel	C	Si	Mn	Al	Cr
Low Al	0.05	0.4	0.6	0.02	16.3
High Al	0.05	0.4	0.6	0.07	16.3

tion, the exterior contents of globe were examined. File

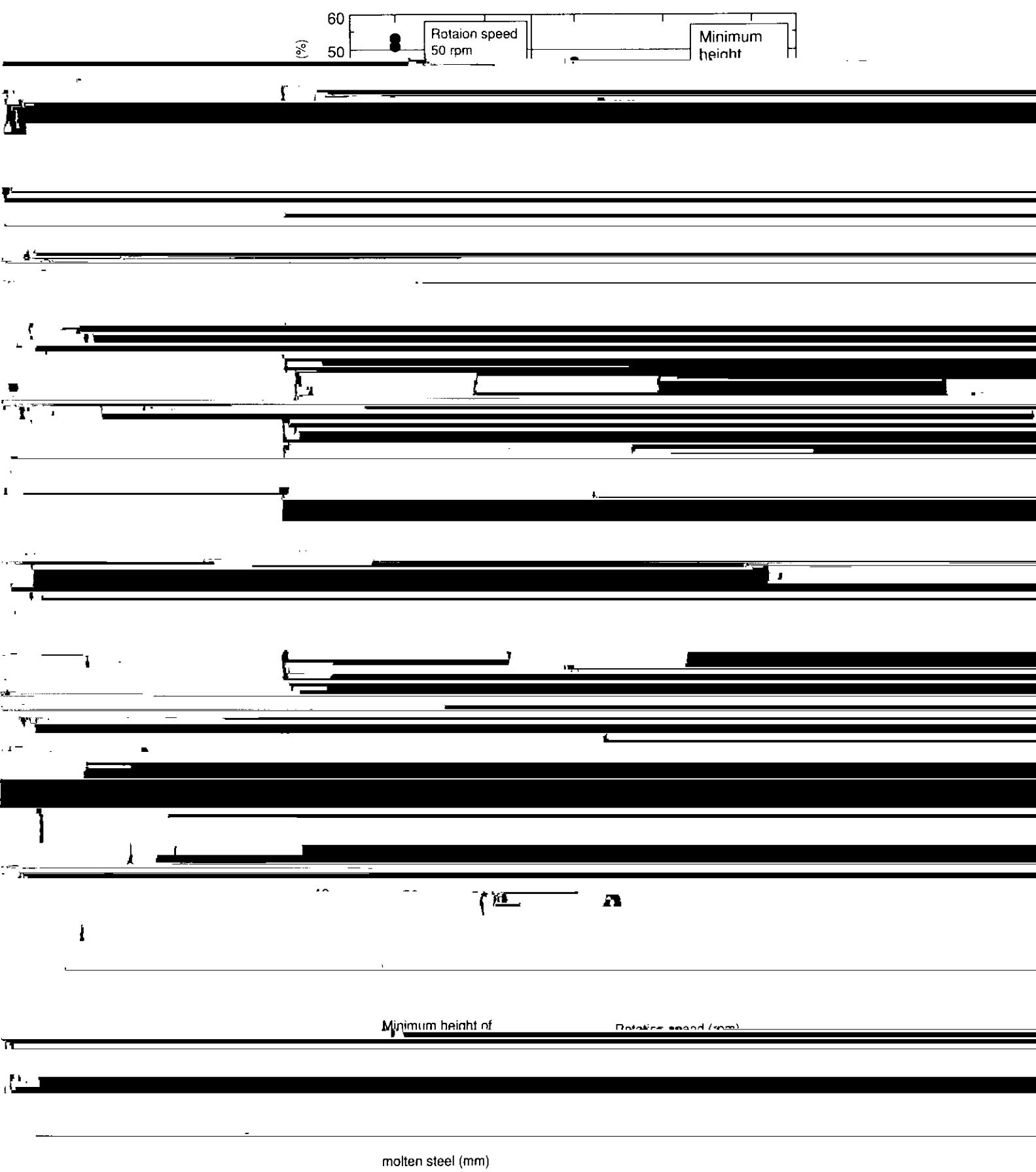


Fig. 8 Measurement of ratio of slag flowing out of rotation chamber during ladle exchange

where,  $k$ : the deoxidation rate constant,  $[O]_m$ : the oxygen

Table 3 Deoxidation rate constants

