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KAWASAKI STEEL GIHO

Vol.27 (1995) No.3

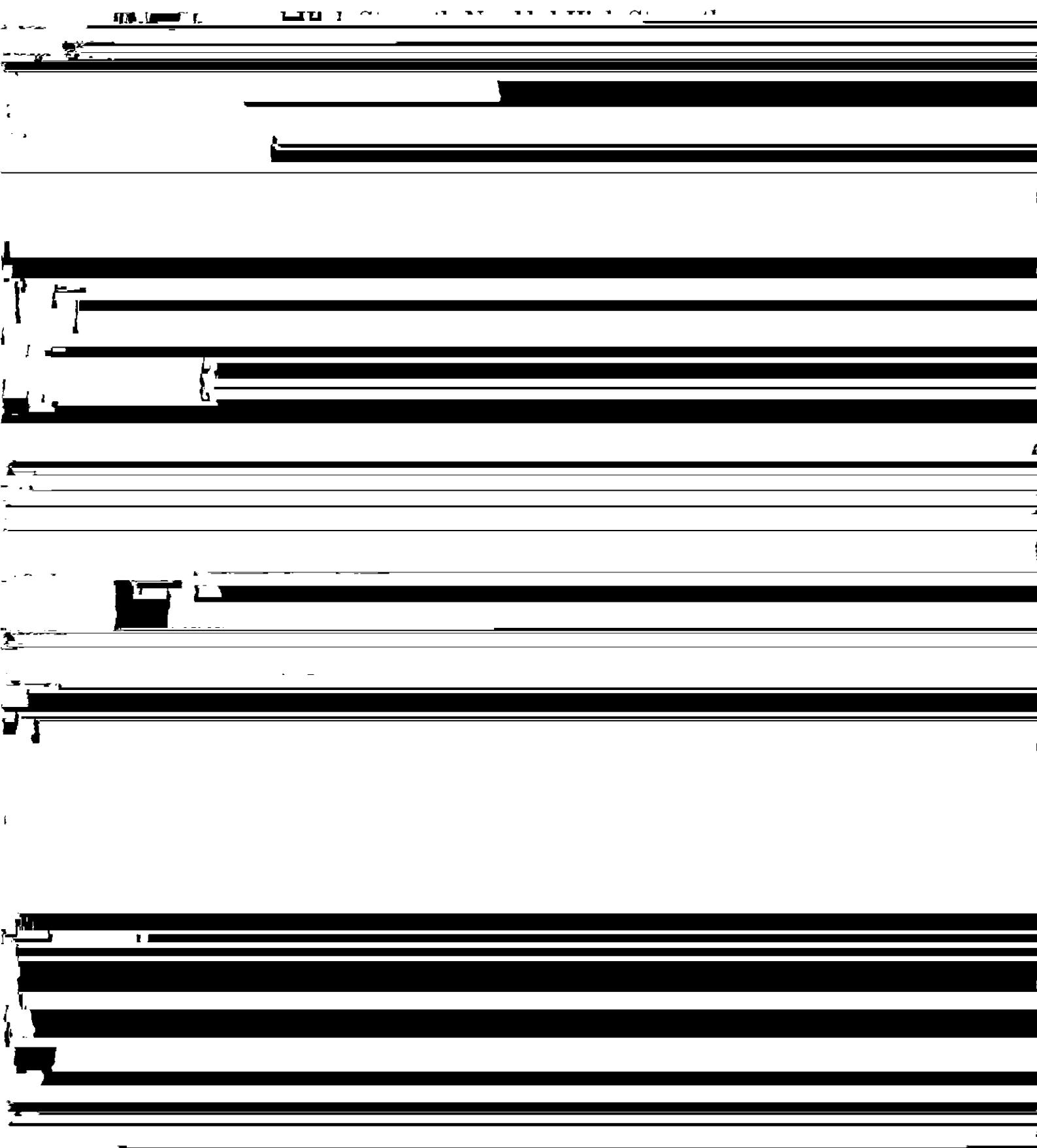
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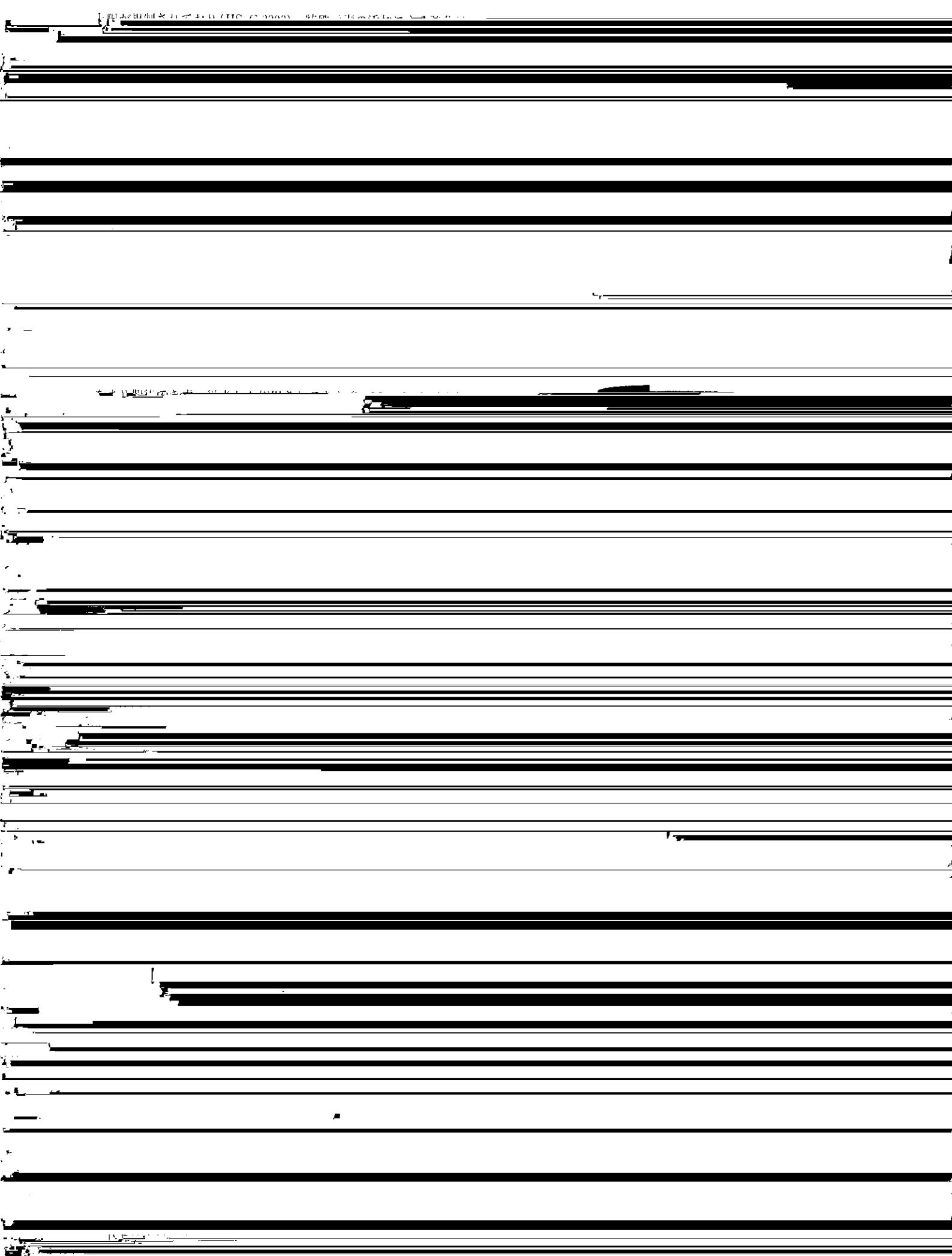
Thin -Gauge and High- Strength N -added High -Strength Tin Mill Blackplates with Good
Canning Properties

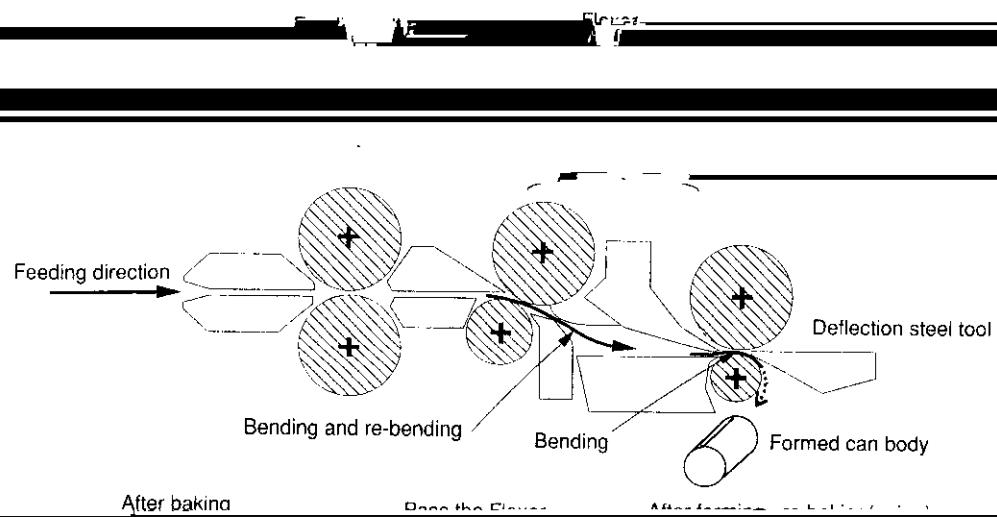
\$í • 'v#è (Akio Tosaka) , "1 Å <(Masatoshi Aratani) , , e 7•(Hideo
Kuguminato)

製缶性に優れた窒素添加高強度極薄缶用鋼板*

川崎製鉄技報
27 (1995) 3, 169-176







Dislocations are locked with C,N

(Steel is hardened.
Y.EL is large.)

Dislocations are unlocked

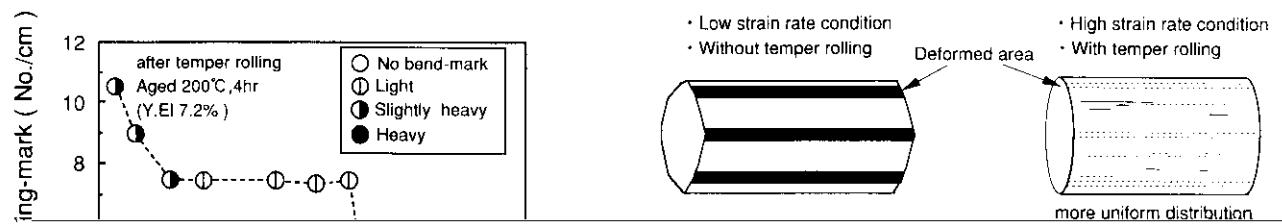
(Steel is softened.
Y.EL is reduced)

Dislocations are locked with C,N

(Steel is hardened.
Y.EL is large.)

∞ | As passing flexor | :30mpm

4.1 実験方法



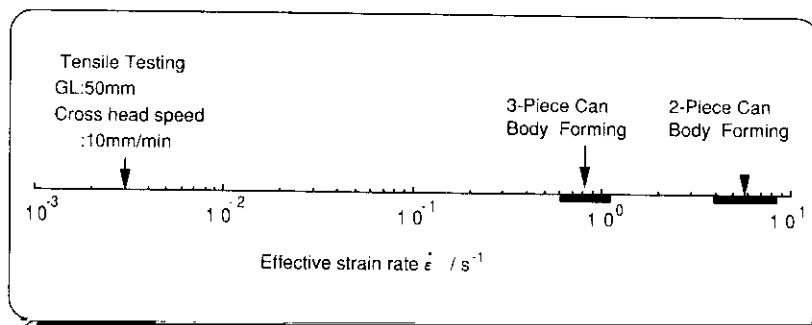


Fig. 10 Comparison of effective strain rate among some canning process



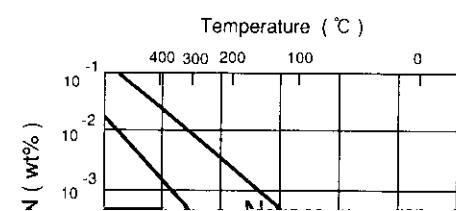
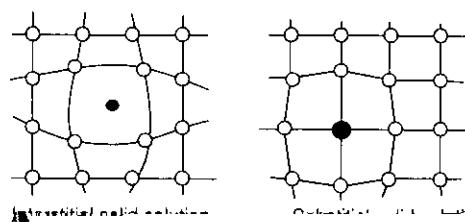


Table 2 Mechanical properties of continuously annealed low C Al-killed steel

Steel	As temper rolled			After aging (at 210°C)		
	YS (MPa)	TS (MPa)	EI (%)	YS (MPa)	TS (MPa)	EI (%)
Conventional	314	416	25	402	409	27
With 100ppm	—	—	—	—	—	—

短時間の連続焼鈍工程においても窒化アルミの析出は進行するため再結晶温度直上の焼鈍が望ましい。

7 結 言

低炭素 Al キルド鋼に N を 100 ppm 程度添加した鋼は以下の点