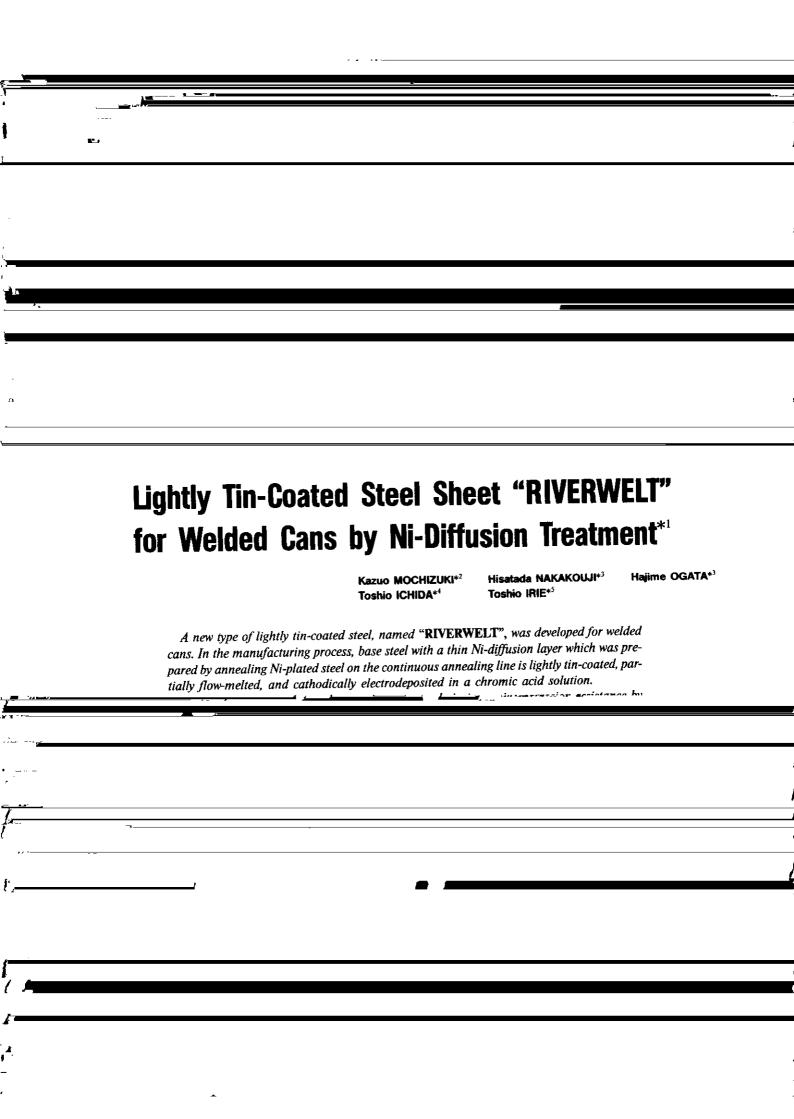
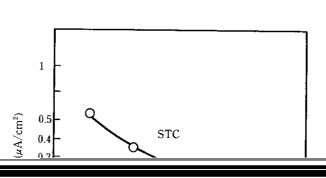
## KAWASAKI STEEL TECHNICAL REPORT

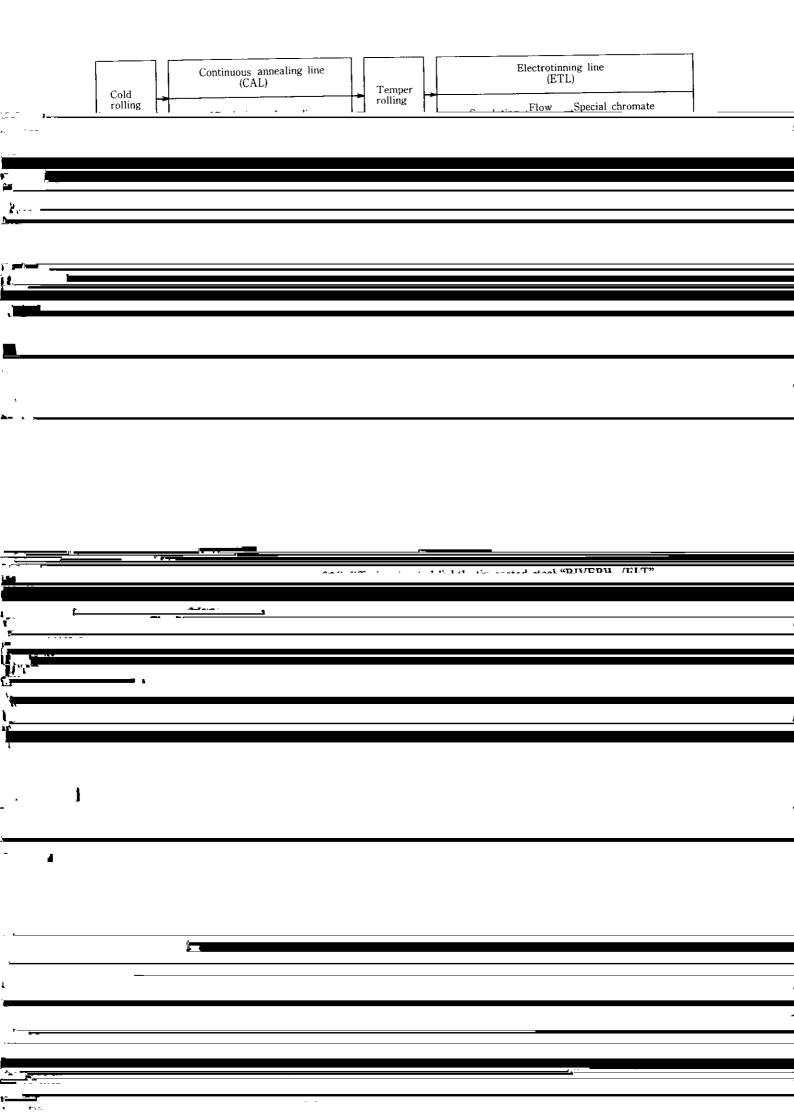
No.12 (July 1985)



have been desired as a replacement for No. 25 tinplate. As a result, many types of lightly tin-coated steels (hereinafter called LTS)<sup>1-9)</sup> and nickel-coated steels<sup>5,10)</sup> were developed, and some have been commercialized.

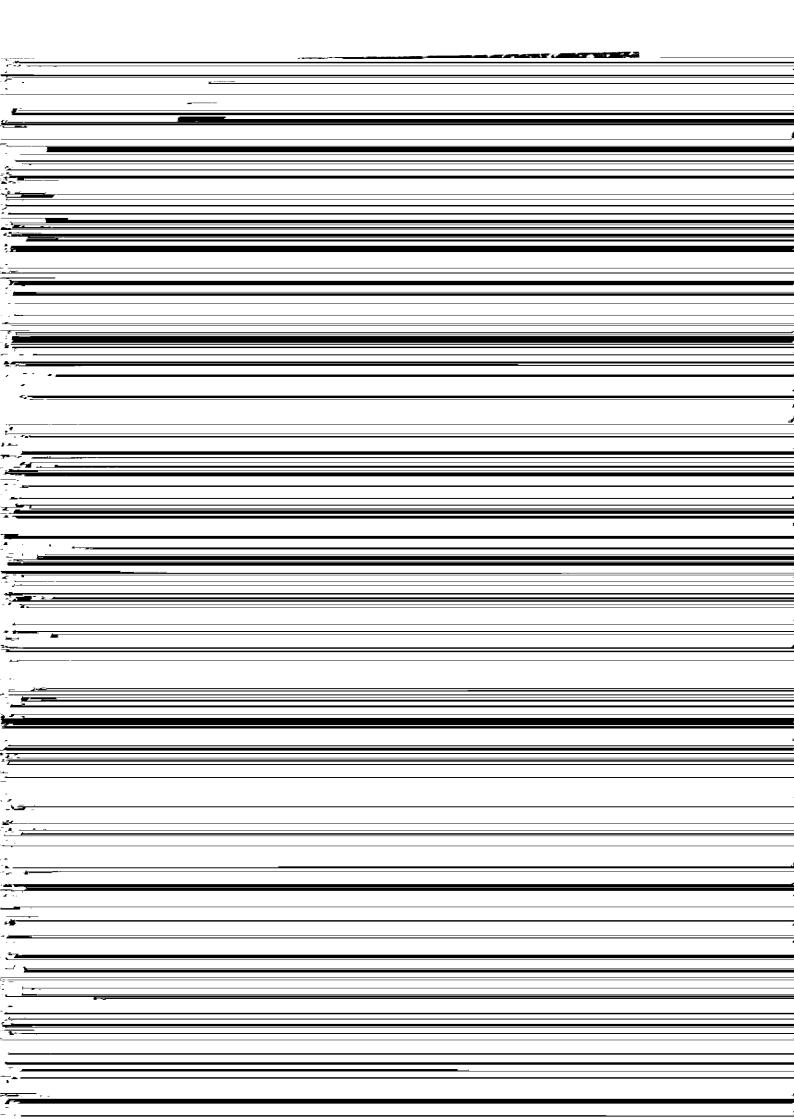
As a result of research and development efforts, Kawasaki Steel came to manufacture surface treated steel sheets with excellent weldability and corrosion resistance which are suitable for food and beverage cans.

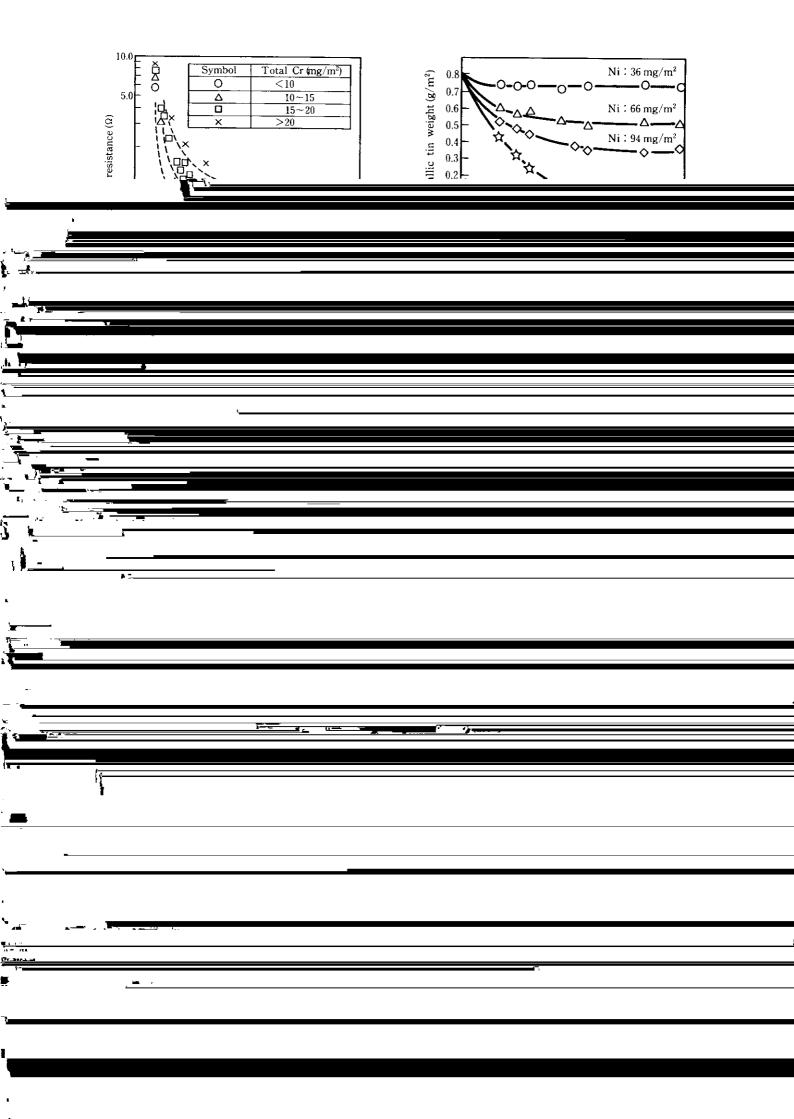


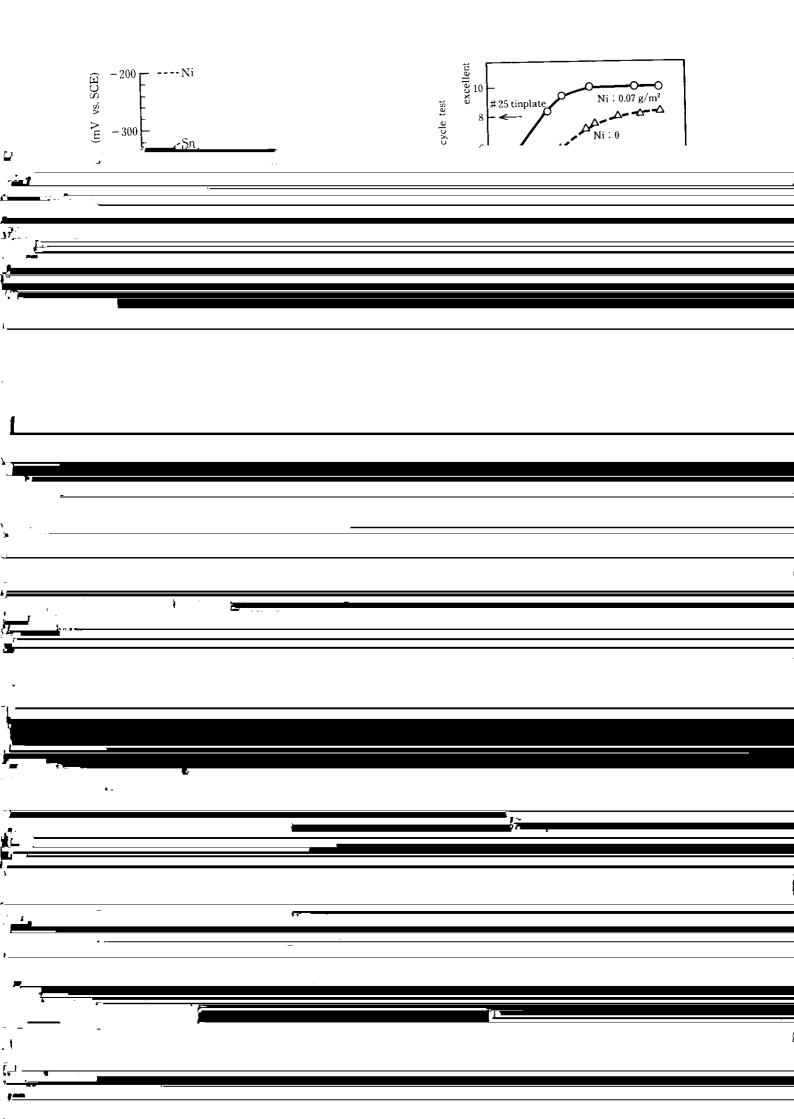


portions was observed. Before annealing 4 Results and Discussion -----After annealing 4.1 Film Structure  $Ni = 0.07 \text{ g/m}^2$ bitrary unit) Results obtained with various analysis devices suggest that the LTS coating film, as illustrated in Fig. 3 is composed of an Ni-diffusion layer (Fe-Ni alloy) formed from the bage or stall and the second

60 min. Sulfide blackening of the bulged and nonbulged







width of lacquer film in the UCC test. In this figure, the coating films with a metallic chromium coating weight 0.4 of zero are composed only of hydrated chromium oxides, which are produced by the CDC treatment

