

# On Line Measuring and Control Equipment for

## 1 Introduction

Zn-Fe galvanized steel has excellent properties, including spot weldability, paint adhesion, and corrosion resistance. On the other hand the coating layer has poor

### process.

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An alloy degree control system was developed at Kawasaki Steel using an alloy sensor which measures the alloying degree continuously. This paper describes the alloy sensor and the results of adoption of the alloy-

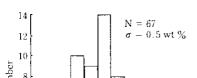
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# 3 Alloy Sensor

 $(I_{BG\Gamma})$  in order to estimate the value exactly. The alloying degree (Fe content) of the coating layer can be calculated by correlating the alloying degree and the intensity ratio of  $\Gamma$  to the background, as shown in Fig. 2

The coating layer of galvannealed steel contains variratio of  $\Gamma$  to the background, as shown in Fig. 2. que tunas at Eg In intermetallia compounds their store ture depending on the Fe-Zn ratio of the layer. The Fesent to the process computer for use in alloy quality Zn ratio in turn varies with the galvannealing treatment assurance and control. A comparison of the in-process temperature, base steel chemical composition, coating measured data with the chemical analysis data for the Fe unich+ red then and in a milia



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# 5 Conclusion

An alloying degree control system was developed uti-