

Outline of New Continuous Galvanizing Line for Automobiles

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Synopsis :

With the aim of producing galvanized steel sheet for the outer panels of automobiles, which was required not only for its good anticorrosion performance, but also for its excellent formability and surface appearance, a new continuous galvanizing line (CGL) was constructed at Kawasaki Steels Mizushima Works and put into operation in May 1989. The CGL has an all radiant tube annealing furnace, new-type gas wiping device and bend-floator to obtain good surface appearance, and also has a large galvannealing furnace to obtain good anti-powdering property. The CGL has succeeded in realizing automatic quality control by developing an on-line alloy sensor, coating weight sensor and so on. The CGL has achieved high-level production of the galvanized steel sheet which has the excellent surface appearance and good coating weight distribution, anti-powdering property and excellent mechanical properties and formability.

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操業\*

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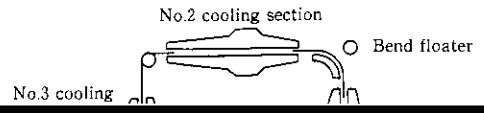
要旨

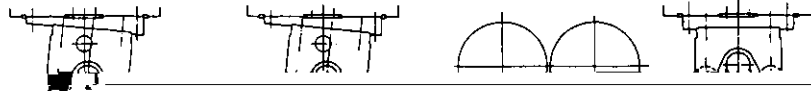
新しい連続鋼板工場の建設が完了し、表面処理が自動化された自動車





3.5 めっき設備





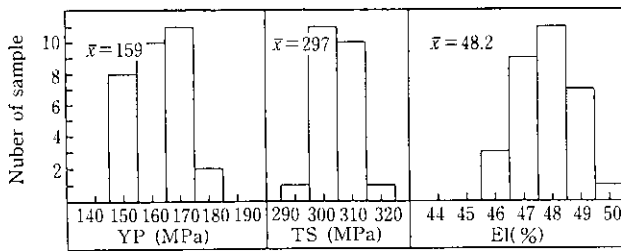


Fig. 15 Mechanical properties of 0.65-mm-thick galvanized steel sheet

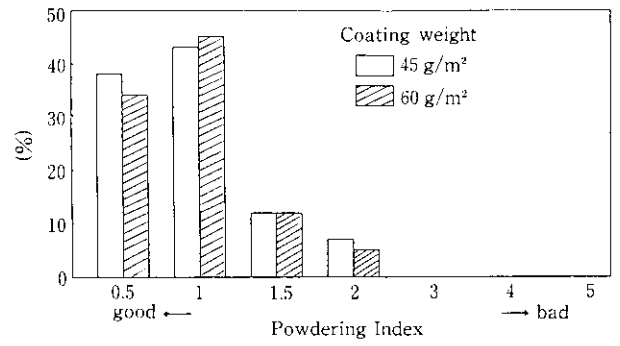
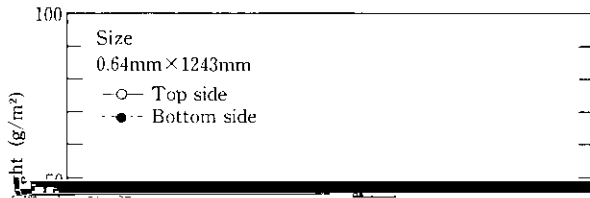


Fig. 17 The result of anti-powdering property obtained by 90° bending test



層中の鉄含有率を適正範囲内に制御することが可能である。さらにオンライン合金化度計によりコイル全長にわたって鉄含有率を測