Properties of NKK Galvalume Steel Sheet “Super Genius Coat”

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A new passivation treatment method of 55%Al-Zn coated steel sheets (galvalume steel sheets) was developed that applies an organic-inorganic hybrid coating named “Super Genius Coat”. Newly developed inhibitors introduced into this passivation treatment significantly enhanced corrosion resistance at formed areas, which has been a challenge for passivation treatments of 55%Al-Zn coated steel sheets. In addition, high formability was achieved by applying new organic resin.

1.

Table 1

Table 1 Type of chromate coatings

Fig.3

4.2 Formability

Fig.5

Photo 4

5. Conclusion