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Hot-Rolled, Cold-Rolled and  
Surface Coated Steel Sheets  
and Electronics and Instrumentation

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Development of Bake-Hardening High-Strength Cold-Rolled Sheet Steels for  
Automobile Exposed Panels

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# Development of Bake-Hardening High-Strength Cold-Rolled Sheet Steels for Automobile Fronted Panels\*

As received



After press-  
forming



After bake-  
painting



(EDDQ) material generally exceeds 2.0.

For conventional bake-hardening, cold-rolled sheet steels with  $r$ -values of less than 2.0, the following two

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### 3 Processing Conditions and Mechanical

Table 1 Typical mechanical properties of continuously annealed cold-rolled sheet steels with extra-deep drawability and bake-hardenabil-

There were many aspects to be resolved for the com-

TS grade (MPa)	YS (MPa)	TS (MPa)	EI (%)	$\bar{r}$	BH (MPa)
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Appendix 1: The checklist of the proposed activities, the results of the assessment and the proposed mitigation measures.

*Caliole pendulosa* are thus able to decrease the halo (TC needs 0.7 mm thickness). The compression exerted

relative temperature and maintain a high increment in ... (TC needs 0.7 mm thickness) ...



steel and the latter an organic composite-coated sheet steel. Both panels require excellent press-formability and

results in little decrease in the strength increment due to strain-age hardening.