Concept of Next-generation Ultra High-Tensile Strength Steel Sheet
(3rd Generation: Gen.3-1180, 1470 MPa-grade)

Effect

**Strengthening and Weight Reduction of Body in White Parts**

**Progress**

1. Under Development
2. Development Completed
3. Commercialized

**Points**

Improved Strength and Elongation realized by Chemistry Design
Specializing in Formability by Proprietary Microstructure Control

Material Property of 3rd Generation Super High-Tensile Strength Steel Sheet

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Microstructure (1180 MPa-grade)

- Utilization of Microstructure
- Utilization of Large Amount of Residual γ
- Realization of High EL

Gen3 Steel Characteristics

- Good work hardening property
- Good bulging stretch formability
- Deep drawability

Balance in Forming Property

- Stretch formability
- Deep drawability
- Bendability

Utilizing its excellent compiled for forming property and deep drawability, it can harden body parts.

*However, because the strength spot-welded joining is not very strong, the application of material considering not only spot welding but other welding methods should be discussed.*