

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

Effect

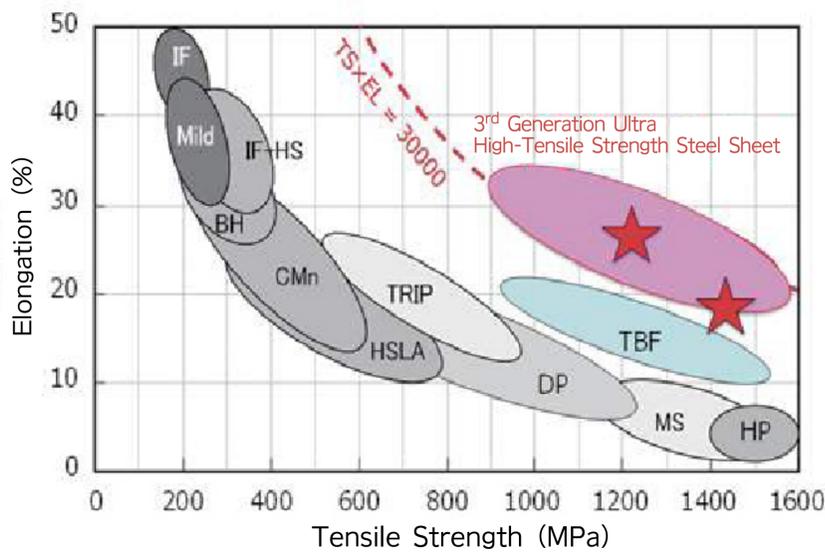
Strengthening and Weight Reduction of Body in White Parts

progress

1. Under Development 2. Development Completed 3. Commercialized

Points

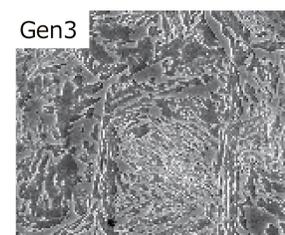
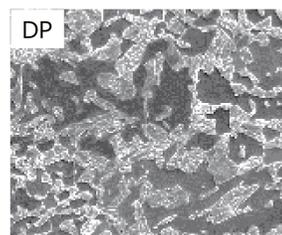
Improved Strength and Elongation realized by Chemistry Design Specializing in Formability by Proprietary Microstructure Control



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

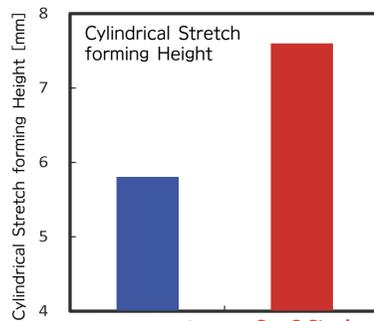
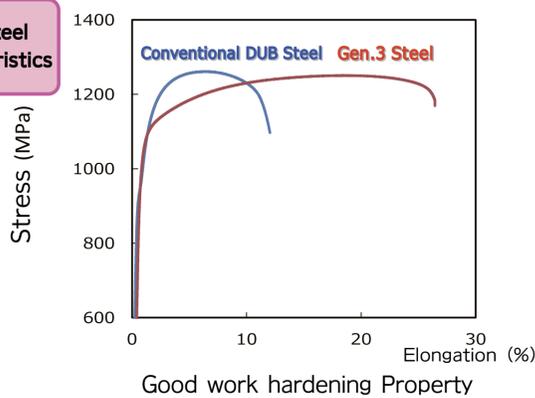
	YS	TS	EL	TS×EL
1180-class	965	1230	27	33210
1470-class	1340	1540	16	24640

Microstructure (1180 MPa-grade)



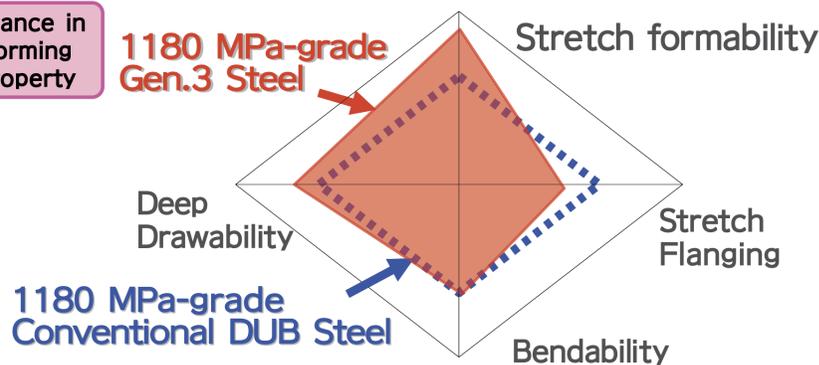
Refinement of Microstructure Utilization of Large Amount of Residual γ
⇒Realization of High EL

Gen3 Steel Characteristics



Good Drawability

Balance in Forming Property



★Utilizing its excellent complied 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.