KOBELCO

High-Formable Cold-Rolled (CR) 980-1470MPa High Strength Steel Sheet

Benefits

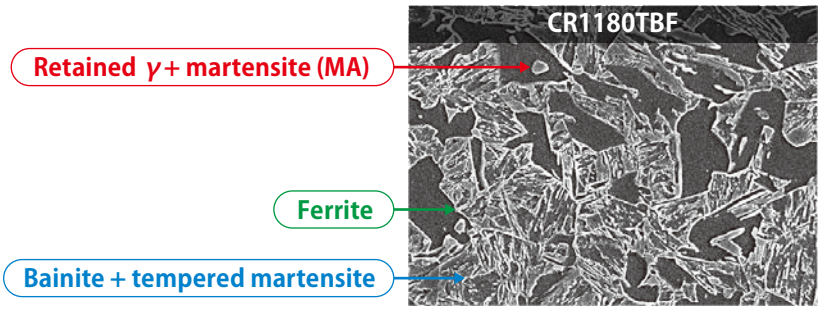
- High strengthening and weight saving of Automotive body frame (BIW) parts

Point

- Achievement of high strengthening and weight saving by higher formability than that of conventional DP steel

Concept in micro-structure

- Control of microstructure into fine and optimun dispersion by adjusting cooling pattern in annealing process
- Ensure of high formability by microstructure of ferrite + fine retained γ

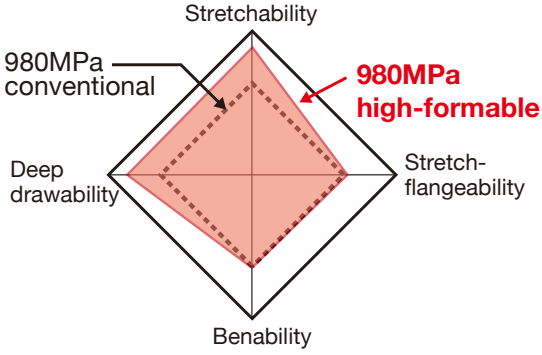


Typical properties

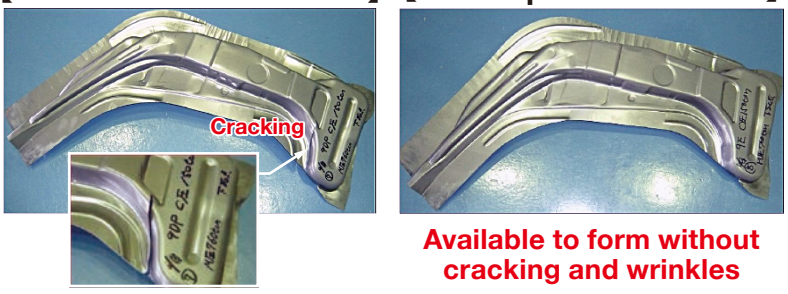
- Secure high elongation while maintaining λ-value

Steel	YS (MPa)	TS (MPa)	EL (%)	λ (%)	Current status
CR 980TBF	650	1020	23	25	Mass production
CR1180TBF	900	1200	15	35	Mass production
CR1470TBF	**1000**	**1530**	**10**	**50**	Under development

Comparison in formability with conventional steel (980MPa steel)



【Conventional: CR980DP】 【**Developed: CR980TBF**】



Available to form without cracking and wrinkles

Example of forming evaluation with simulated mold of front pillar

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