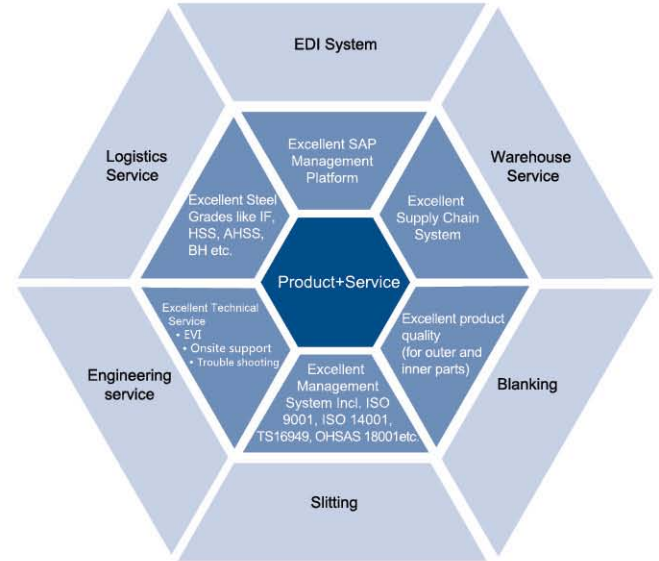


TAGAL - More than a steel supplier

TAGAL New Products Promotion

Dual Phase Steel :
HCT780/980+GI/GA

TAGAL-More than a steel supplier



TAGAL (TKAS Auto Steel Company Limited) persists the all-round service idea of "More than a steel supplier", which makes us to be a trustful hot-dip galvanized steel supplier and expert of technical solution for customers.

TKAS Auto Steel Company Limited
No.68,GangTie Road, Dalian Development Zone
+86(411)87518888
www.tagal.cn
sales@tagal.com.cn



HCT780+GI/GA

For safety structural components in the car body

Application examples in InCar® Car Body



■ Proposed applications for reference

Features

- 🕒 For complex parts with very high strength demands
- 🕒 Easy to cold forming with low yield-to-tensile ratio and high work-hardening index, excellent for stretch-forming behaviour
- 🕒 Less spring back compared to HSLA steel due to a large gap between the yield strength and the tensile strength
- 🕒 Good work hardening behaviour
- 🕒 Good weldability with normal joining equipment

Applications:

For high-strength structure parts like A- and B-Pillar, Side Member, Crossbar, Sill and Reinforcements. Strength can be increased and weight can be saved by replacing conventional high strength steels with extra high strength steel grades.

HCT780+GI/GA

Mechanical properties and production range

Mechanical Properties in transverse direction	R _{p02} [MPa]	R _m [MPa]	A ₈₀ [%]
	450-560	≥ 780	≥ 14

Standard: EUDIN 10346

(※ Specific customer requirements will be clarified on request)

Coating type: GI, GA

Dimension scope:

Thickness: 1.2 – 2.0 mm

Widths: 1000 – 1250 mm

Coating weight: ≥ 45/45 g/m²

→ Low tensile strengths due to soft ferrite matrix containing small islands of hard martensite

Technical notes:

Cold forming characteristics: OK

Welding characteristics: OK

Due to their balanced ferrite and martensite contents they offer a particularly attractive combination of high strength, low yield-to-tensile ratio, good cold formability and weldability



→ High strength with very good stretch-deep drawing forming characteristics

HCT980+GI/GA

For safety components in the car body



■ Proposed applications for reference

Features

- For complex parts with very high strength demands
- Good cold forming behaviour
- Very high deformation resistance
- Wide application range

Applications: High-strength structure parts like A-, B-, C- Pillar, Side member, Crossbar, Sill and Reinforcements



HCT980+GI/GA

Mechanical properties and production range

Mechanical Properties in transverse direction	R _{p02} [MPa]	R _m [MPa]	A ₈₀ [%]
	600-750	≥ 980	≥ 10

Standard: EUDIN 10346

(※ Specific customer requirements will be clarified on request)

Coating type: GI, GA

Dimension scope:

Thickness: 1.00 – 1.80 mm

Widths: 1000 – 1230 mm

Coating weight: ≥ 45/45 g/m²

Notes:

Improved lightweight construction potential compared to HCT780. Good cold formability. Microstructural composition ferrite, martensite. Alloy concept consists of 0.15% C and Mn Cr Si/ microalloy elements

Technical notes:

Welding characteristics: OK

Cold forming characteristics: OK



➔ High strength with very good stretch-deep drawing forming characteristics