

Docol 1200CP

General Product Description

Docol 1200CP complex phase steel is developed for increased safety in cars. Its ultra-high strength combined with an improved formability allows for weight reduction in BIW applications. This steel undergoes special heat treatment in a continuous annealing line, producing a complex phase structure.

Dimension Range

Cold rolled / UC: thickness 1.00-1.80 mm, width up to 1527 mm.

Slit strip are available upon request.

Grade and coating specific restrictions on available dimensions may occur.

Mechanical Properties

Steel grade	Standard	Coating	Test direction	Yield strength R _{p0.2} (MPa)	Tensile strength R _m (MPa)	Elongation A ₈₀ (min %)	BH ₂ (min MPa)
Docol CR900Y 1180T-CP	VDA 239-100: 2016	UC	L	900 - 1100	1180 - 1350	5	30

The testing of mechanical properties of electrogalvanized products is conducted without coating.

Chemical Composition (Ladle analysis)

Steel grade	Coating	C (max %)	Si (max %)	Mn (max %)	P (max %)	S (max %)	Al (%)	Ti+Nb (max %)	Cr+Mo (max %)	B (max %)	Cu (max %)
Docol CR 900Y 1180T-CP	UC	0.23	1.00	2.90	0.025	0.010	0.015 - 1.0	0.15	1.00	0.005	0.20

Tolerances

Cold rolled (UC): Tolerances in accordance to EN10131.

Customized dimensional and shape tolerances available upon request.

Surface Treatments

Surface Treatments

Uncoated (UC): available as oiled.

All surface treatments are in accordance with RoHS directive (2011/65/EU) and do not contain Chromium VI (Cr⁶⁺). Surface treatments provide only temporary surface protection during transportation and storage. In order to avoid corrosion damages, care must be taken to keep the products dry during transportation and storage. If they become wet, they must be separated and situated so that they are dried quickly.

Fabrication and Other Recommendations

For information concerning fabrication, see SSAB's brochures on www.ssab.com or consult Tech Support, techsupport@ssab.com.

Appropriate health and safety precautions must be taken when bending, welding, cutting, grinding or otherwise working on the product.

Contact Information

www.ssab.com/contact