DOCOL®

THE AUTOMOTIVE STEEL

Docol 500DP

General Product Description

Docol 500DP dual-phase steel possesses good formability and weldability and is suitable for car safety components such as reinforcements. This steel undergoes special heat treatment in a continuous annealing line, producing a two-phase structure. Ferrite that imparts unique forming properties represents one phase, and martensite that accounts for the strength represents the other phase.

Dimension range

Docol CR290Y500T-DP/ UC: thickness 0.50-2.10 mm, width up to 1527mm, length up to 8500 mm.

Slitting to narrow coils and cutting to sheets are available upon request.

Mechanical Properties

Steelgrade	Coating	Yield strength $R_{p0,2}$ (MPa)	Tensile strength R_m (MPa)	Elongation A_{80} (min %)	Min. inner bending radius for 90 °
Docol CR290Y500T-DP	UC	290- 370	500- 600	20	0.0xt

The mechanical properties are tested transverse to the direction of rolling.

Chemical Composition

C (max %)	Si (max %)	Mn (max %)	P (max %)	S (max %)	Al (min %)	Nb+Ti (max %)
0.10	0.50	1.00	0.025	0.020	0.015	0.10

Tolerances

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

Customized dimensional and shape tolerances are available on request.

Coatings and surface treatments

Surface treatments

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.

Surface coating	Available surface treatment
UC (Cold-rolled)	Oiled
UC (Cold-rolled)	Unprotected

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

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