

Docol 200 and Docol Form

Cold reduced mild steels

Product

The cold reduced mild steels spanning the whole range of steel grades intended for relatively simple pressing and bending up to advanced forming with best conceivable properties in both drawing and stretch forming operations. Docol 200 and Docol Form is used for a wide variety of applications, for instance vehicle parts, refrigerators, electric radiators and water radiators.

Docol 200 and Docol Form meet the requirement in standard EN 10130:2006, except the steelgrade Docol Form 07. Docol 200 offer less spreading in strength and improved elongation compare to standard EN 10130:2006.

The range of mild steels, with the exception of Docol Form 06 and Docol Form 07, can be supplied with chemical compositions that make the steels especially suited for hot-dip galvanizing.

Mechanical properties

Grade		Yield Strength	Tensile Strength		Elongation	r_{90°	n_{90°
SSAB	EN 10130	$R_{p0,2}$ N/mm ² max	R_m N/mm ² min	max	$A_{80\%}$ min	min	min
Docol 200	DC01	260	280	380	29	-	-
Docol Form 03	DC03	240	270	370	34	1,3	-
Docol Form 04	DC04	210	270	350	38	1,6	0,18
Docol Form 05	DC05	180	270	330	40	1,9	0,20
Docol Form 06	DC06	170	270	330	41	2,1	0,22
Docol Form 07	-	150	250	310	42*	2,3*	0,23

* Docol Form 07: $A_{80\%}$ and r_{90° values not fulfilled according to EN 10130

Chemical Composition

(Typical values)

Grade		C	Mn	P	S	N	Al	Ti
SSAB	EN 10130	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Docol 200	DC01	0,05	0,20	0,01	0,01	0,003	0,04	-
Docol Form 03	DC03	0,04	0,20	0,01	0,01	0,005	0,04	-
Docol Form 04	DC04	0,04	0,20	0,01	0,01	0,005	0,04	-
Docol Form 05	DC05	0,02	0,20	0,01	0,01	0,005	0,04	-
Docol Form 06	DC06	0,002	0,15	0,01	0,01	0,003	0,04	0,065
Docol Form 07	-	0,002	0,15	0,01	0,01	0,003	0,04	0,065

Dimension range

Coils

Thickness: 0.40* - 3.00 mm

Width: 600 - 1500 mm

* Min thickness 0.40 mm valid for Docol 200 and Docol Form 03. All the order grades have min thickness 0.50 mm.

Cut to length sheet

Thickness: 0.50 - 3.00 mm

Width: 600 - 1500 mm

Length: 1000 - 8500 mm

The maximum width is depending on steel grade and thickness.

Tolerances

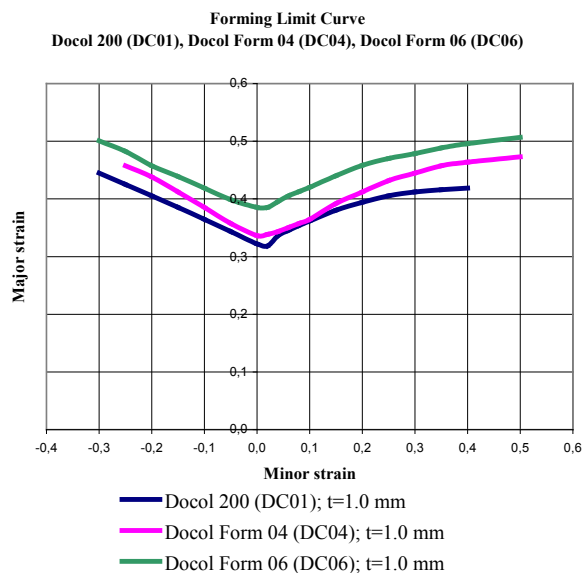
Docol 200 and Docol Form is supplied to tolerances accordance with EN 10131.

Welding

Docol 200 and Docol Form offer excellent welding characteristics. All the conventional welding methods can be used

Forming

Docol 200 and Docol Form has very good performance regarding formability and ductility. Typical forming data for some of the steelgrades, i.e. Docol 200, Docol Form 04 and Docol Form 06 with thickness 1.0 mm, are shown in the figure below.



Technical service and information

Knowledge Service Center will be pleased to assist with additional information concerning this product from SSAB Tunnplåt.

Specifications herein are for general reference only. They are valid at date of publication and are subjects to change without notice due to ongoing product development.
Specifications are binding only if confirmed in writing.



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