

Docol 700 W

The weather resistant ultra high strength steel

Product

Docol 700 W is a ultra high strength weather resistant steel. The high strength is achieved by cold rolling and heat treatment in a continuous annealing line. This steel is a weather resistant steel i.e. during outdoor usage within a couple of years a smooth compact oxide layer is formed that inhibits further corrosion. In addition to it's weather resistant properties Docol 700 W it's characterized by high resistance to impact and wear, good formability and weldability.

Applications

Docol 700 W is specially designed for use in container panels. By using this ultra high strength steel for containers, great gains can be made by reducing the tare weight.

This steel can also be used for other applications, where corrosion resistant properties are needed together with high strength.

Dimension range

Docol 700 W is available in thickness 0.50-2.00 mm and width up to 1400 mm. Limitations may occur depending on thickness. Docol 700 W is supplied to tolerances in accordance with EN 10131.

Chemical composition

(typical values)

Grade	C %	Si %	Mn %	P %	S %	Al _{tot} %	Nb %	Ti %	Cr %	Cu %
Docol 700 W	0,13	0,50	1,20	0,010	0,002	0,040	0,015	0,013	0,50	0,40

Mechanical properties

Yield Strength $R_{p0.2}$ (N/mm ²)	Tensile Strength R_m (N/mm ²)	Elongation A_{80} (%)	Min. radius for 90° bend
min 700	min 800	min 5	2 x thickness

Welding

The weldability of Docol 700 W is good. All the conventional fusion welding methods can be used.

To obtain the same corrosion resistance in the weldment as in the base metal special filler metals should be used. The producers of fillers metals have given the following recommendations for welding weather resistant steels.

Producer	MMA (Manual metall arc)	MAG (Gas metal arc)
ESAB	OK 73.08	OK Autrod 13.26
Filarc	85CP	PZ 6012
Oerlikon	Tenn cord Kb	Spoolcord TD-COR

Technical service and information

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

The particulars in this data sheet are correct at the time of going to print and are intended to give general guidance for the use of the product. Subject to changes arising from continual product development. The information and data must not be regarded as guaranteed values, unless specially confirmed in writing.

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