

Docol Wear 450

Product

Docol Wear 450 is a cold rolled continuously annealed, quenched and tempered steel with excellent wear resistance. Besides good wear resistance the material is characterized by good formability, good weldability and good surface finish.

Application

Docol Wear 450 is recommended in components that are subjected to abrasion due to hard particles, such as sand, gravel, pebbles, grain, etc (abrasive wear).

Examples of applications where abrasive wear is present are:

- Construction industry: cement mixers, truck bodies.
- Transport industry: slurry tubes, refuse vehicles.
- Agriculture: transport tubes for grain.
- Mining: fans, conveyors.

Dimension

Thickness: 0,5 - 2,10 mm

Width: 800 - 1500 mm, depending on thickness.

Tolerances: EN 10131

Chemical composition

(typical values)

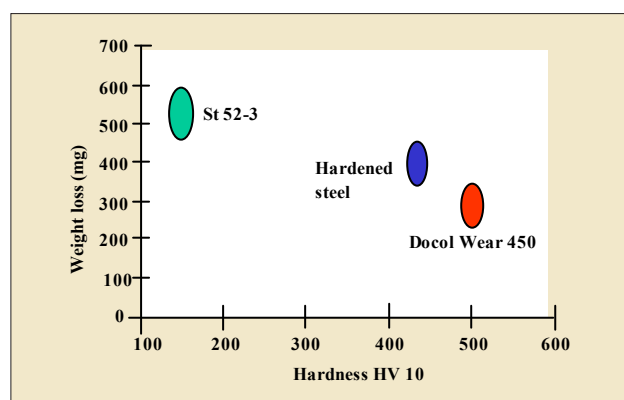
Grade	C %	Si %	Mn %	P %	S %	Al _{tot} %	Nb %	Ti %
Docol Wear 450	0,17	0,20	1,40	0,010	0,002	0,040	0,015	0,025

Hardness

(typical values)

Steel grade	Hardness Brinell, HB*)	Hardness Rockwell, HRC	Hardness Vickers, HV5
Docol Wear 450	440	43	450

*) Brinell 2,5 mm steel ball



The figure shows a comparative test of wear resistance for Docol Wear 450 and hot rolled steels. The test were carried out in a "Paddle" wear machine.

Bending

Steel grade	Min radius for 90° bend
Docol Wear 450	3xt

t = sheet thickness

Welding

The weldability of Docol Wear 450 is good. All the conventional fusion welding methods can be used. The producers of fillers metals have given the following recommendations for welding Docol Wear 450.

Producer	MMA (Manual metal arc)	MAG (Gas metal arc)
ESAB	OK 75.75	OK 13.13 OK 13.31
Filarc	Filarc 118	
ELGA	P 110 MR Maxeta 110	Elgamatic 135
Oerlikon	Tenacito 80	Carbofil NiMoCr Spoolcord TD-T90

Technical service and information

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

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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