

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)

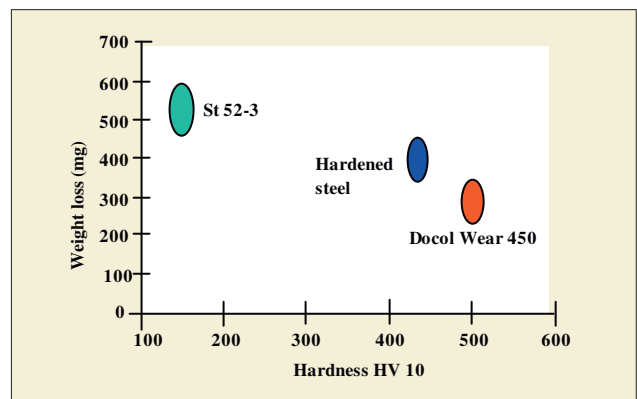
Grade	C %	Si %	Mn %	P %	S %	Al _{tot} %	Nb %	Ti %
Docol Wear 450	0,17	0,20	1,20	0,010	0,002	0,040	0,015	0,025

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 Tunnpåt.

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.

SSAB Tunnpåt AB

781 84 Borlänge
Tel +46 243 700 00
Fax +46 243 720 00
office@ssabtunnplat.com
www.ssabtunnplat.com
www.ssabdirect.com

Denmark

SSAB Svensk Stål A/S
Tel +45 4320 5000
ssab.dk

Finland

OY SSAB Svenskt Stål AB
Tel +358 9 686 6030
ssab.fi

Czech Republic

SSAB Swedish Steel s.r.o.
Tel +420 545 210 550

France

SSAB Swedish Steel SA
Tel +33 1 55 61 91 00
ssab.fr

Germany

SSAB Swedish Steel GmbH
Tel +49 211 912 50
Tel +49 211 912 51 29
ssab.de

Great Britain

SSAB Swedish Steel Ltd
Tel +44 1905 795794
swedishsteel.co.uk

Italy

SSAB Swedish Steel S.p.A
Tel +39 030 905 881 1
ssab.it

The Netherlands

SSAB Swedish Steel BV
Tel +31 24 679 05 50
ssab.nl

Norway

SSAB Svensk Stål A/S
Tel +47 23 11 85 80
ssab.no

Poland

SSAB Swedish Steel Sp.
z o.o.
Tel +48 22 723 03 80
Tel +48 22 723 00 49

Portugal

SSAB Swedish Steel
Tel +351 256 371 610
ssab.pt

Spain

SSAB Swedish Steel S.L.
Tel +34 91 300 54 22
ssab.es

USA

SSAB Swedish Steel Inc
Tel +1 412-269 21 20
swedishsteel.us

Brazil

SSAB Swedish Steel Ltda.
Tel + 55 41 3014 9070
ssab.com.br

South Africa

SSAB Swedish Steel Pty Ltd
Tel +27 11 822 2570
swedishsteel.co.za

China

SSAB Swedish Steel
Tel +86 10 6440 3550
swedishsteel.cn

Korea

SSAB Swedish Steel Ltd
Tel +82 2 369 7272

Australia

SSAB Swedish Steel Pty.Ltd
Tel +61 3 9548 8455

Russia

SSAB Swedish Steel
Tel + 7 495 781 39 33

Turkey

SSAB Swedish Steel
Tel + 90 216 372 63 70

