



Dogal 200 and Dogal Form Mild Steels for Drawing

General

The mild steels can be used for applications ranging all the way from simple pressing up to advanced drawing and stretch forming.

Applications

Dogal 200 and Dogal Form are used for a number of applications, some examples are ventilation, lightening armatures and pressed details in automotive industry.

Dimensions

Coils

Thickness: 0,40 – 2,50 mm Width: 700 – 1500 mm

Sheets

Thickness	Width	Length		
mm	mm	mm		
0,50 - 1,50	600 - 1500	300 - 3600		
1,50 - 2,50	600 - 1500	1000 - 8500		

Tolerances

Dogal 200 and Dogal Form are delivered with tolerances according to EN 10143.

Zinc coating

The various coating thicknesses are classified into weight classes which specify the minimum zinc weight in g/m2 on both sides, as determined by means of the triple-spot test in accordance with EN 10327.

Weight class	Coating thickness per side µm	Weight determina Triple-spot test min	tion g/m²on two sides Singel test min
Z100	7	100	85
Z120	8	120	100
Z140	10	140	120
Z200	14	200	170
Z275	20	275	235

^{*} The values are calculated on the basis of the minimum values for the triple-spot test (1 μ m = 7,14 g/m²).

Surface treatment

Surface treated Dogal are provided with chemical and/or oiling passivation as surface protection. The chemical passivation are chromate free and fulfil the demands in the End-of-life Vehicles Directive (2000/53/EC) and the Directive on the restriction of the use of ceratin hazardous substances in electrical and electronic equipment (2002/95/EC.

Mechanical properties

Steel grade		Yield strength R _{p02} (N/mm²)			Tensile strength R _m (N/mm²)		r _{90°}	n _{90°}
SSAB	EN 10327	Min	Max	Min	Max	Min	Min	Min
Dogal 200	DX51D	200	-	300	440	24	-	-
Dogal Form 30	DX53D	140	260	270	380	30	-	-
Dogal Form 36	DX54D	120	220	260	350	36	1,6	0,18
Dogal Form 40	DX56D*	120	200*	270	350	39	1,9	0,21

^{*} R_{n02} - max for DX56D is according to EN 10327 180 MPa

Chemical composition

(max)

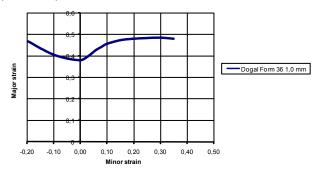
% by mass							
Steel grade	C max	Si max	Mn max	P max	S	Cr max	Al _{tot} min
	IIIdx	IIIdx	IIIdx	IIIdx	Шах	IIIdx	"""
Dogal 200	0,070	0,020	0,27	0,020	0,020	0,080	0.015
Dogal Form 30	0,025	0,024	0,25	0,020	0,020	0,050	0.010
Dogal Form 36	0,004	0,030	0,20	0,020	0,015	0,050	0.020
Dogal Form 40	0,004	0,030	0,20	0,020	0,015	0,050	0.020

Forming

Dogal 200 och Dogal Form have very good forming properties.

Forming limit diagrams

(true strain)



Technical service and information

Knowledge Service Center will be pleased to assist with additional information concerning this product from SSAB Tunnplåt, +46-243-7 2929, or use SSAB Tunnplåts own website www.ssabdirekt.com.

Welding

Dogal 200 och Dogal Form have very good welding properties. All conventional welding methods can be used.

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.

SSAB Tunnplåt AB 781 84 Borlänge Tel +46 243 700 00 Fax +46 243 720 00 www.ssab.com strip@ssab.com **Denmark** SSAB Svensk Stål A/S Tel +45 4320 5000 ssab.dk

FinlandOY 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

GermanySSAB Swedish Steel GmbH
Tel +49 211 9125 0
Tel +49 711 68784 0
ssab.com

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

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

The NetherlandsSSAB 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

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

Portugal SSAB Swedish Steel Tel +351 252 291 000 ssab.pt

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

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

BrazilSSAB 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

