

Cold-rolled DX57-GI HyperForm®

Formable steel with superior deep drawing and stretching properties

DX57-GI HyperForm® is a hot-dip galvanised steel grade developed to meet the highest requirements on formability. With the combination of low initial strength, high n-value and r-value DX57-GI HyperForm provides an engineering solution for the most complex panels. Superior deep drawing and stretching properties makes this grade the best option for improving press shop efficiency and reducing total cost

of ownership (TCO). Typical applications are bodyside panels, door inner panels, wheel arches and floor panels with integrated spare wheel wells. DX57-GI HyperForm comes with a hot-dip galvanised coating in both unexposed and exposed surface quality and widths up to 1800 mm.

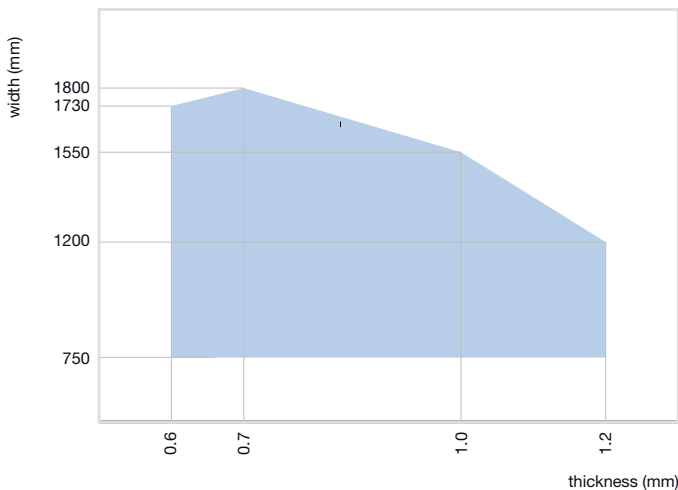
Mechanical properties

Grade	Test direction	Yield strength	Tensile strength	Elongation	n-value	r-value	r _{average}
		R _{p02} (MPa)	R _m (MPa)	A ₉₀ (%)			
DX57-GI HyperForm	T	120-160	260-310	≥ 43	≥ 0.23	≥ 2.3	≥ 2.0
DX57 (EN 10346)	T	120-170	260-350	≥ 41	≥ 0.22	≥ 2.1	-

Chemical composition

	C	Si	Mn	P	S	Al	Ti
	max.	max.	max.	max.	max.	min.	max.
DX57-GI HyperForm	0.01	0.50	0.20	0.020	0.020	0.010	0.20
DX57 (EN 10346)	0.12	0.50	0.60	0.10	0.045		0.30

Available dimensions for DX57-GI HyperForm®



Surface aspects

Roughness

	Roughness Ra (µm) cut off 2.5 mm	Roughness Ra (µm) cut off 0.8 mm
normal	0.9-1.5	0.75-1.25
high	1.2-1.8	1.00-1.55

Surface quality

DX57-GI HyperForm is available in both unexposed (MB) and exposed (MC) surface quality.

Oiling

DX57-GI HyperForm is supplied with oiled surface. A range of preservative and prelube oils can be applied.

Please refer to Tata Steel or your local sales representative for dimensions which fall outside of the above matrix.

Our material experts are there to support the deployment of DX57-GI HyperForm in your specific application area. Our online material database Aurora Online provides our customers with comprehensive data sheets and ready to run input decks.

For more information (also for access to Aurora Online):

connect.automotive@tatasteel.com

www.tatasteeurope.com/aurora



www.tatasteeurope.com

Tata Steel

Automotive

PO Box 10000

1970 CA IJmuiden

The Netherlands

E: connect.automotive@tatasteel.com

www.tatasteeurope.com/automotive

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